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ABSTRACT

This document contains the appendices of a study undertaken to determine the nature of popular interest in and demand for cultural and artistic activities in 13 southern states. The general objective of the study was to provide information to policy makers on public opinion regarding the relative merits of "elitist activities" (high cultural activities such as attending operas and symphonies), and "popular activites" (a broader range of art and leisure-related activities such as camping) to the development of policy on the arts. Data regarding types of leisure/arts-related activities which are currently pursued and likely to be pursued in the future were collected in a self-administered mail survey of a probability sample for 13 southern states. A total of 3,196 questionnaires was delivered to potential respondents and 1,684 questionnaires were returned completed. A sample questionnaire is presented in Appendix A. Also included in the appendix (12 items in all) are sampling procedures and survey return results, sample balancing and weighting of responses, follow-up interviews, data on proportion of respondents failing to answer the questionnaire, correlation matrices and factor matrix for current participation activities, data on cost incurred and distance traveled to participate in leisure activities, distribution of perceived availability of various types of arts/leisure activities, cross tabulation of current participation clusters, data on socio-economic status and demographic variables of respondents, and description of the characteristics of the program used in the cluster analysis. Each of these appended items includes information on description of data, background, tables, and interpretation of data. (DB)

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Final Report
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Leisure Participation in the South

Volume II — Appendices

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HUMAN RESOURCES RESEARCH ORGANIZATION
300 North Washington Street • Alexandria, Virginia 22314

July 1980

Prepared for:

National Endowment for the Arts
Washington, D.C.

SO 013 530

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APPENDIX A

Questionnaire

The National Endowment for the Arts

Leisure Activities Survey

Form Approved
OMB No.
128-S78003

Human Resources Research Organization 300 N. Washington St. Alexandria, Virginia 22314

PART I

In this section of the questionnaire we are interested in finding out the kinds of things you do during your leisure time. Below is a list of leisure activities. For each activity there are four questions across the top of the page. You should READ THE QUESTION AT THE TOP, THEN ANSWER IT FOR EACH OF THE ACTIVITIES ON THAT PAGE BY WRITING IN OR MARKING THROUGH THE APPROPRIATE BOXES. When you have finished one question on a page go on to the next question. You will be answering down each column rather than across. Continue to do this until you have answered all questions for that page, then go on to the next page. These questions form a major part of our study, and IT IS IMPORTANT THAT YOU ANSWER ALL QUESTIONS FOR EACH ACTIVITY.

We also realize that not all possible leisure activities are mentioned on our list. Sometimes only general categories are included, along with several examples of the type of activity we think would fit in that category. You should be able to fit all of your leisure activities into these categories, however, if you cannot, space has been provided at the end of the list for your own additions.

NOTE THE EXAMPLE PELOW:

EXAMPLE

	A	B	C	D
	How often was this activity available in your area (within 30 miles) during the past 12 months? –Never available –Available every once in a while –Available regularly or seasonally –Always available –Don't know if it was available	Did you ever do this activity before you were 18 years old? –No, never –Yes, some times –Yes, often	Have you done this activity since you were 18 years old? –No, never –Yes, but not in last 12 months –Yes, only in last 12 months –Yes, both before and during last 12 months	About how much time did you spend on this activity in the last 12 months? Answer either in average hours or parts of hours per week OR in numbers of times per year, which ever is listed for that activity. If you did not do the activity in the last 12 months, answer 0.
1. Reading (fiction books, periodicals, and nonfiction).		No / Sometimes / [✓]	No / Yes, before 12 months / Yes, during last 12 months / [✓]	3 Average Hours Per Week
2. Going to symphony concerts.	Never / [✓] / Regularly / Always / Don't know	No / [✓] / Often	No / Yes, before 12 months / Yes, during last 12 months / [✓]	4 Times in Last Year
3. Taking classes or attending lectures on art history, literature, etc., or belonging to a literature club (not book buying).	Never / Sometimes / Regularly / [✓] / Don't know	No / [✓] / Often	No / [✓] / Yes, during last 12 months / Yes, both	1/2 Average Hours Per Week
4. Watching regular TV programs day and night except sports and news.		No / Sometimes / [✓]	No / Yes, before 12 months / Yes, during last 12 months / [✓]	14 Average Hours Per Week
5. Going to jazz concerts.	Never / [✓] / Regularly / Always / Don't know	No / [✓] / Often	No / Yes, before 12 months / [✓] / Yes, both	2 Times in Last Year
6. Watching sports (such as football, basketball, auto racing etc.) on TV or listening on radio.	Never / Sometimes / Regularly / [✓] / Don't know	[✓] / Sometimes / Often	No / Yes, before 12 months / Yes, during last 12 months / [✓]	1 Average Hours Per Week

EXAMPLE

	A	B	C	D
	How often was this activity available in your area (within 30 miles) during the past 12 months? —Never available —Available every once in a while —Available regularly or seasonally —Always available —Don't know if it was available	Did you ever do this activity before you were 18 years old? —No, never —Yes, some times —Yes, often	Have you done this activity since you were 18 years old? —No, never —Yes, but not in last 12 months —Yes, only in last 12 months —Yes, both before and during last 12 months	About how much time did you spend on this activity in the last 12 months? Answer either in average hours or parts of hours per week OR in numbers of times per year, which ever is listed for that activity. If you did not do the activity in the last 12 months, answer 0.
1. Reading (fiction books, periodicals, and nonfiction).		No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Average Hours Per Week
2. Writing novels, stories, plays, or poetry, or taking classes in writing (all types). (Circle appropriate activities).		No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Average Hours Per Week
3. Taking classes or attending lectures on art history, literature, etc., or belonging to a literature club (not book buying).	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Times in Last Year
4. Watching regular TV programs day and night except sports and news.		No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Average Hours Per Week
5. Watching news and information programs on TV (e.g., nightly news shows, Meet the Press, 60 Minutes, etc.) or reading in newspapers and news/magazines.		No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Average Hours Per Week
6. Watching sports (such as football, basketball, auto racing, etc.) on TV or listening on radio.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Average Hours Per Week
7. Visiting painting, graphic arts, photography or sculpture exhibits.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Times in Last Year
8. Visiting craft exhibits (such as pottery, weaving, macrame, jewelry, quilting).	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Times in Last Year
9. Touring buildings, gardens, or neighborhoods for design or historic value or visiting history, science or technical museums.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Times in Last Year
10. Painting, drawing, making sculpture, doing graphic art, taking photographs (as art) or making films yourself. (Circle those which apply).	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Average Hours Per Week
11. Doing crafts (such as ceramics, weaving, woodworking, making quilts or afgans, whittling, etc.).	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Times in Last Year
12. Taking art classes in painting, sculpture, graphics, film, or crafts.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Times in Last Year
13. Going to choral concerts (by religious and non-religious groups) such as choir, gospel, barbershop, etc.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Times in Last Year
14. Going to jazz concerts.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Times in Last Year
15. Going to rock or country and western or rhythm and blues concerts.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Times in Last Year
16. Going to folk/ethnic concerts or festivals.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Times in Lsat Year
17. Going to symphony or chamber music concerts.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	____ Times in Last Year

	A	B	C	D
	How often was this activity available in your area (within 30 miles) during the past 12 months? –Never available –Available every once in a while –Available regularly or seasonally –Always available –Don't know if it was available	Did you ever do this activity before you were 18 years old? –No, never –Yes, some times –Yes, often	Have you done this activity since you were 18 years old? –No, never –Yes, but not in last 12 months –Yes, only in last 12 months –Yes, both before and during last 12 months	About how much time did you spend on this activity in the last 12 months? Answer either in average hours or parts of hours per week OR in numbers of times per year, which ever is listed for that activity. If you did not do the activity in the last 12 months, answer 0.
18. Going to an opera.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Times in Last Year
19. Going to fairs and carnivals.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Times in Last Year
20. Listening on radio or watching on TV classical music, opera, or dancing (modern or folk).	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Average Hours Per Week
21. Listening to radio broadcasts of all other music, such as rock, western, rhythm & blues, popular, folk, etc.		No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Average Hours Per Week
22. Listening to recordings (your own records of any type of music.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Average Hours Per Week
23. Watching performances of jazz on TV or listening on the radio.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Times in Last Year
24. Playing an instrument in a group or for your own entertainment or taking music lessons.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Average Hours Per Week
25. Singing in or playing for a chorus, choir, or other singing group. (In a nonreligious or religious group.)	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Average Hours Per Week
26. Going to theater performances (by professionals, or amateurs) (not high school or grade school shows).	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Times in Last Year
27. Acting in plays or musicals, performing in a dance group, taking lessons in either, or providing behind the scene support (make-up, stagehand, etc.) for either.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Times in Last Year
28. Going to the movies.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Times in Last Year
29. Listening to radio broadcasts, your own recordings or watching TV productions of plays or poetry (e.g., Hamlet, Upstairs - Downstairs, Henry VIII series, etc.)	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Average Hours Per Week
30. Going to a ballet or modern dance performance (not including recitals by your own children under age 18).	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Times in Last Year
31. Going to a folk dancing performance by touring international or American folk/ethnic groups or local folk/ethnic groups.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Times in Last Year
32. Going to watch sports in person, such as football, horse racing, auto racing, etc.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Times in Last Year
33. Camping, hiking, back-packing, hunting, fishing, boating, or other strenuous outdoor activity (such as, snow or water skiing, skating, etc.)		No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	Times in Last Year

	A	B	C	D
	How often was this activity available in your area (within 30 miles) during the past 12 months? –Never available –Available every once in a while –Available regularly or seasonally –Always available –Don't know if it was available	Did you ever do this activity before you were 18 years old? –No, never –Yes, some times –Yes, often	Have you done this activity since you were 18 years old? –No, never –Yes, but not in last 12 months –Yes, only in last 12 months –Yes, both before and during last 12 months	About how much time did you spend on this activity in the last 12 months? Answer either in average hours or parts of hours per week OR in numbers of times per year, whichever is listed for that activity. If you did not do the activity in the last 12 months, answer 0.
34. Going to church or doing other church-related activities.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	______ Average Hours Per Week
35. Playing competitive sports (such as football, basketball, auto racing, etc.)		No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	______ Average Hours Per Week
36. Playing indoor activities or games (such as, ping pong, pool, cards, etc.) with friends and/or family.		No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	______ Average Hours Per Week
37. Jogging, weight lifting, or other exercise program.	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	______ Average Hours Per Week
38. Charity, volunteer, social service, or political organization meetings and activities (such as Red Cross, United Way, PTA, Rotary, consumer groups, civil rights groups, political parties, etc.		No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	______ Average Hours Per Week
39. Fraternal organization meetings and activities (such as, Masons, Elks) or club activities (e.g., garden club, card club).		No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	______ Average Hours Per Week
40. Picnicing, visits to parks, zoos, nature walks, or driving a car for pleasure (going for a ride).		No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	______ Average Hours Per Week
41. Visiting with friends or family members, writing letters, talking to friends on the phone, etc.		No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	______ Average Hours Per Week
42. Playing with your children.			No Yes, before 12 months Yes, during last 12 months Yes, both	______ Average Hours Per Week
43. Do-it-yourself activities or hobbies (such as dressmaking, fixing cars, home improvement projects, gourmet cooking, decorating, gardening, stamp collecting, antique collecting.		No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	______ Average Hours Per Week
44. Playing with pets (beyond basic feed and clean-up).		No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	______ Average Hours Per Week
45. Sitting and thinking—day-dreaming.		No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	______ Average Hours Per Week
46. Other activity. Specify ______ ______	Never Sometimes Regularly Always Don't know	No Sometimes Often	No Yes, before 12 months Yes, during last 12 months Yes, both	______ Average Hours Per Week

PART II

Now we would like to know which of the leisure activities you would like to do more and why you don't do more now. In column E answer how much more you would like to do each activity by writing in the appropriate number.

In column F, for those activities you would like to increase (answered 1, 2, or 3 in column E) write the number of the reason which best shows why you haven't done more of this activity before. Use the list of reasons on the right side of the sheet. If you have other reasons write them at the end of our list and use those numbers in your answers. Do not answer for activities you would not like to increase.

	E On a 4-point scale, how much would you like to increase your participation in this activity? Write 0 if you would not increase. Write 1 if you would somewhat like to increase. Write 2 if you would very much like to increase. Write 3 if this is one of the 4 or 5 activities you would most like to increase.	F What is the most important reason you haven't done more of this in the past year? Use reasons listed in right-hand column.
1. Reading (fiction books, periodicals, and nonfiction).		
2. Writing novels, stories, plays, or poetry, or taking classes in writing (all types). (Circle appropriate activities).		
3. Taking classes or attending lectures on art history, literature, etc., or belonging to a literature club (not book buying).		
4. Watching regular TV programs day and night except sports and news.		
5. Watching news and information programs on TV (e.g., nightly news shows, Meet the Press, 60 Minutes, etc.) or reading in newspapers and news/magazines.		
6. Watching sports (such as football, basketball, auto racing etc.) on TV or listening on radio.		
7. Visiting painting, graphic arts, photography or sculpture exhibits.		
8. Visiting craft exhibits (such as pottery, weaving, macrame, jewelry, quilting).		
9. Touring buildings, gardens, or neighborhoods for design or historic value or visiting history, science or technical museums.		
10. Painting, drawing, making sculpture, doing graphic art, taking photographs (as art) or making quilts or afgans, whittling, etc.).		
11. Doing crafts (such as ceramics, weaving, woodworking, making quilts or afgans, whittling, etc.).		
12. Taking art classes in painting, sculpture, graphics, film, or crafts.		
13. Going to choral concerts (by religious and nonreligious groups) such as choir, gospel, barbershop, etc.		

Reasons I have not increased my participation at this time

1. My family and/or friends are not interested.
2. It is inconvenient, no way to get there, too far or unsafe to attend these events.
3. The quality of the performers/players is not very good.
4. I don't like to get dressed up to go out.
5. The facilities (place where the activity occurs) are not very good.
6. The crowds are too large.
7. I don't like the programs they present.
8. It costs too much.
9. I like doing other things more.
10. They are not available in my area.
11. I'm too old or physically handicapped.
12. Because of the children.
13. Other reason: ________________
14. Other reason: ________________

	E	F
	On a 4-point scale, how much would you like to increase your participation in this activity? Write 0 if you would not increase. Write 1 if you would somewhat like to increase. Write 2 if you would very much like to increase. Write 3 if this is one of the 4 or 5 activities you would most like to increase.	What is the most important reason you haven't done more of this in the past year? Use reasons listed in right-hand column.
14. Going to jazz concerts.		
15. Going to rock or country and western or rhythm and blues concerts.		
16. Going to folk/ethnic concerts or festivals.		
17. Going to symphony or chamber music concerts		
18. Going to an opera.		
19. Going to fairs and carnivals.		
20. Listening on radio or watching on TV classical music, opera, or dancing (modern or folk).		
21. Listening to radio broadcasts of all other music, such as rock, western, rhythm and blues, popular, folk, etc.		
22. Listening to recordings (your own records of any type of music.		
23. Watching performances of jazz on TV or listening on the radio.		
24. Playing an instrument in a group or for your own entertainment or taking music lessons.		
25. Singing in or playing for a chorus, choir, or other singing group.		
26. Going to theater performances (by professionals or amateurs) (not high school or grade school shows.)		
27. Acting in plays or musicals, performing in a dance group, taking lessons in either, or providing behind the scene support (make-up, stagehand, etc.) for either.		
28. Going to the movies.		
29. Listening to radio broadcasts, your own recordings or watching TV productions of plays or poetry (e.g., Hamlet, Upstairs - Downstairs, Henry VIII series, etc.		

Reasons I have not increased my participation at this time

1. My family and/or friends are not interested.
2. It is inconvenient, no way to get there, too far or unsafe to attend these events.
3. The quality of the performers/players is not very good.
4. I don't like to get dressed up to go out.
5. The facilities (place where the activity occurs) are not very good.
6. The crowds are too large.
7. I don't like the programs they present.
8. It costs too much.
9. I like doing other things more.
10. They are not available in my area.
11. I'm too old or physically handicapped.
12. Because of the children.
13. Other reason: ____________
14. Other reason: ____________

	E	F
	On a 4-point scale, how much would you like to increase your participation in this activity? Write 0 if you would not increase. Write 1 if you would somewhat like to increase. Write 2 if you would very much like to increase. Write 3 if this is one of the 4 or 5 activities you would most like to increase.	What is the most important reason you haven't done more of this in the past year? Use reasons listed in right-hand column.
30. Going to a ballet or modern dance performance (not including recitals by your own children under age 16).		
31. Going to a folk dancing performance by touring international or American folk/ethnic groups or local folk/ethnic groups.		
32. Going to watch sports in person, such as football, horse racing, auto racing, etc.		
33. Camping, hiking, back-packing, hunting, fishing, boating, or other strenuous outdoor activity (such as, snow or water skiing, skating, jogging, etc.)		
34. Going to church or doing other church-related activities.		
35. Playing competitive sports (such as football, basketball, auto racing, etc.).		
36. Playing indoor activities or games (such as, ping pong, pool, cards, etc.) with friends and/or family.		
37. Jogging, weight lifting or other exercise program.		
38. Charity, volunteer, social service, or political organization meetings and activities (such as Red Cross, United Way, PTA, Rotary, consumer groups, civil rights groups, political parties, etc.		
39. Fraternal organization meetings and activities (such as, Masons, Elks) or club activities (e.g., garden club, card club).		
40. Picnicking, visits to parks, zoos, nature walks, or driving a car for pleasure (going for a ride).		
41. Visiting with friends or family members, writing letters, talking to friends on the phone, etc.		
42. Playing with your children.		
43. Do-it-yourself activities or hobbies (such as dress-making, fixing cars, home improvement projects gourmet cooking, decorating, gardening, stamp collecting, antique collecting.		
44. Playing with pets (beyond basic feed and clean-up.		
45. Sitting and thinking—day-dreaming.		
46. Other activity. Specify: ____________________ ____________________		

Reasons I have not increased my participation at this time

1. My family and/or friends are not interested.
2. It is inconvenient, no way to get there, too far or unsafe to attend these events.
3. The quality of the performers/players is not very good
4. I don't like to get dressed up to go out.
5. The facilities (place where the activity occurs) are not very good.
6. The crowds are too large.
7. I don't like the programs they present.
8. It costs too much.
9. I like doing other things more.
10. They are not available in my area.
11. I'm too old or physically handicapped.
12. Because of the children.
13. Other reason: ____________________
14. Other reason: ____________________

PART III

Please answer the questions following those activities which you have done during the past 12 months. Do Not answer for things you have not done.

IN COLUMN "A", please write in the AVERAGE COST of tickets or admission to each of the things you did. Include the cost for you and your family only. If your participation was free, enter "0".

IN COLUMN "B", please write in the approximate average distance (one way) that you travel (in miles) from your home to get to the place where each activity takes place.

IN COLUMN "C", please check the person or persons with whom you most often participated. Check only one box for each activity.

	A	B	C				
	AVERAGE COST OF TICKETS OR ADMISSION (EACH TIME YOU PARTICIPATED)	AVERAGE DISTANCE (IN MILES) THAT YOU TRAVELED (ONE WAY) TO THIS ACTIVITY	PERSON(S) MOST OFTEN PARTICIPATED WITH				
ANSWER ONLY FOR THINGS YOU DID DURING THE LAST 12 MONTHS			Alone	Whole Family	Spouse	Children	Friends
1. Reading (fiction books, periodicals, and nonfiction).	▭	▭	☐	☐	☐	☐	☐
2. Writing novels, stories, plays, or poetry, or taking classes in writing (all types). (Circle appropriate activities).	$ ____	# ____ Miles	☐	☐	☐	☐	☐
3. Taking classes or attending lectures on art history, literature, etc., or belonging to a literature club (not book buying).	$ ____	# ____ Miles	☐	☐	☐	☐	☐
4. Watching regular TV programs day and night except sports and news.	▭	▭	☐	☐	☐	☐	☐
5. Watching news and information programs on TV (e.g., nightly news shows, Meet the Press, 60 Minutes, etc.) or reading in newspapers and news/magazines.	▭	▭	☐	☐	☐	☐	☐
6. Watching sports (such as football, basketball, auto racing etc.)	▭	▭	☐	☐	☐	☐	☐
7. Visiting painting, graphic arts, photography or sculpture exhibits.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
8. Visiting craft exhibits (such as pottery, weaving, macrame, jewelry, quilting).	$ ____	# ____ Miles	☐	☐	☐	☐	☐
9. Touring buildings, gardens, or neighborhoods for design or historic value or visiting history, science or technical museums.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
10. Painting, drawing, making sculpture, doing graphic art, taking photographs (as art) or making films yourself. (Circle those which apply).	$ ____	# ____ Miles	☐	☐	☐	☐	☐
11. Doing crafts (such as ceramics, weaving, woodworking, making quilts or afgans, whittling, etc.).	$ ____	# ____ Miles	☐	☐	☐	☐	☐
12. Taking art classes in painting, sculpture, graphics, film, or crafts.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
13. Going to choral concerts (by religious and non-religious groups) such as choir, gospel, barbershop, etc.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
14. Going to jazz concerts.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
15. Going to rock or country and western or rhythm and blues concerts.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
16. Going to folk/ethnic concerts or festivals.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
17. Going to symphony or chamber music concerts.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
18. Going to an opera	$ ____	# ____ Miles	☐	☐	☐	☐	☐
19. Going to fairs and carnivals	$ ____	# ____ Miles	☐	☐	☐	☐	☐
20. Listening on radio or watching on TV classical music, opera, or dancing (modern or folk).	▭	▭	☐	☐	☐	☐	☐
21. Listening to radio broadcasts of all other music, such as rock, western, rhythm & blues, popular, folk, etc.	▭	▭	☐	☐	☐	☐	☐
22. Listening to recordings (your own records of any type of music.	▭	▭	☐	☐	☐	☐	☐
23. Watching performances of jazz on TV or listening on the radio.	▭	▭	☐	☐	☐	☐	☐

ANSWER ONLY FOR THINGS YOU DID DURING THE LAST 12 MONTHS	A AVERAGE COST OF TICKETS OR ADMISSION (EACH TIME YOU PARTICIPATED)	B AVERAGE DISTANCE (IN MILES) THAT YOU TRAVELED (ONE WAY) TO THIS ACTIVITY	C PERSON(S) MOST OFTEN PARTICIPATED WITH Alone	 Whole Family	 Spouse	 Children	 Friends
24. Playing an instrument in a group or for your own entertainment or taking music lessons	$ ____	# ____ Miles	☐	☐	☐	☐	☐
25. Singing in or playing for a chorus, choir, or other singing group. (In a nonreligious or religious group.)	$ ____	# ____ Miles	☐	☐	☐	☐	☐
26. Going to theater performances (by professionals or amateurs) (not high school or grade school shows).	$ ____	# ____ Miles	☐	☐	☐	☐	☐
27. Acting in plays or musicals, performing in a dance group, taking lessons in either, or providing behind the scene support (make-up, stagehand, etc.) for either.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
28. Going to the movies.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
29. Listening to radio broadcasts, your own recordings or watching TV productions of plays or poetry (e.g., Hamlet, Upstairs - Downstairs, Henry VIII series, etc.)	☐	☐	☐	☐	☐	☐	☐
30. Going to a ballet or modern dance performance (not including recitals by your own children under age 16).	$ ____	# ____ Miles	☐	☐	☐	☐	☐
31. Going to a folk dancing performance by touring international or American folk/ethnic groups or local folk/ethnic groups.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
32. Going to watch sports in person, such as football, horse racing, auto racing, etc.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
33. Camping, hiking, back-packing, hunting, fishing, boating, or other strenuous outdoor activity (such as, snow or water skiing, skating, etc.)	$ ____	# ____ Miles	☐	☐	☐	☐	☐
34. Going to church or doing other church-related activities.	☐	# ____ Miles	☐	☐	☐	☐	☐
35. Playing competitive sports (such as, football, basketball, auto racing, etc.)	$ ____	# ____ Miles	☐	☐	☐	☐	☐
36. Playing indoor activities or games (such as, ping pong, pool, cards, etc.) with friends and/or family.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
37. Jogging, weight lifting or other exercise program.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
38. Charity, volunteer, social service, or political organization meetings and activities (such as, Red Cross, United Way, PTA, Rotary, consumer groups, civil rights groups, political parties, etc.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
39. Fraternal organization meetings and activities (such as, Masons, Elks) or club activities (e.g., garden club, card club).	$ ____	# ____ Miles	☐	☐	☐	☐	☐
40. Picnicing, visits to parks, zoos, nature walks, or driving a car for pleasure (going for a ride).	$ ____	# ____ Miles	☐	☐	☐	☐	☐
41. Visiting with friends or family members, writing letters, talking to friends on the phone, etc.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
42. Playing with your children.	☐	☐	☐	☐	☐	☐	☐
43. Do-it-yourself activities or hobbies (such as dressmaking, fixing cars, home improvement projects, gourmet cooking, decorating, gardening, stamp collecting, antique collecting.	$ ____	# ____ Miles	☐	☐	☐	☐	☐
44. Playing with pets (beyond basic feed and clean-up).	☐	☐	☐	☐	☐	☐	☐
45. Sitting and thinking—day-dreaming.	☐	☐	☐	☐	☐	☐	☐
46. Other activity. Specify: ____________	$ ____	# ____ Miles	☐	☐	☐	☐	☐

PART IV

VACATION ACTIVITIES – Now we would like to find out how you spent your vacation time during the past year.

1. IF YOU ARE WORKING FULL-TIME, how much actual vacation time did you take off from work during the past year (since July of 1977)? ______ DAYS

2. IF YOUR SPOUSE IS WORKING FULL-TIME, how much vacation time did he/she take? ______ DAYS

3. In the past 12 months, did you travel away from your home for leisure (not business) trips that took more than one day?

☐ YES – (CONTINUE) ☐ NO – (SKIP TO QUESTION 4)

What was the most important purpose of your longest (in time) trip? (CHECK ONLY ONE)

☐ Visit friends/relatives ☐ Sightseeing
☐ Camping or hunting ☐ Other – (SPECIFY) ________________________

In the remaining questions we would like to get some information about you and your background.

4. Do you have a physical handicap which would keep you from participating in certain leisure activities you might otherwise enjoy?

YES – What are these handicaps? ________________________
____
____

NO

5. How many children do you have living at home who are 16 years old or younger? ________

6. If you have children living at home, about what proportion of your leisure time is devoted either directly to your children or in activities related to their interests (e.g., watching little league games or children's TV programs), rather than to activities you might pursue if you had no children?

1. 0 to 10%
2. 11 to 25%
3. 26 to 50%
4. 51 to 75%
5. 76 to 100%

7. We would like to find out how you divide your time. The following questions are to determine how you might spend an average week in working and leisure time. When answering these questions, try to think about what a "normal" week might include during any season of the year, not just right now. Do not include holidays or vacation periods in answering these questions.

A typical week may be divided into three parts: (1) time spent sleeping, eating, and in personal hygiene; (2) time spent working at a regular job or at home including shopping, work around house, etc.; and (3) time spent in leisure activities. We shall assume that the first part takes about 10 hours per day or 68 hours per week. That leaves 100 hours for work and leisure.

About how many hours do you spend working or doing housework (include going to and from work and necessary home jobs, such as grass cutting, shopping, etc.)? ______ hours

About how many hours do you spend on leisure (spare-time) activities, such as watching TV, visiting friends, playing with your children, hobbies, going out, etc.?

______ # of hours spent away from home

______ # of hours spent at home

[NOTE: The total leisure and work hours should equal approximately 100 hours.]

8. What is your approximate family income? (Circle the number.)

1	Up to $5,000 per year
2	$5,001 to 8,000
3	$8,001 to 10,000
4	$10,001 to 12,000
5	$12,001 to 15,000
6	$15,001 to 20,000
7	$20,001 to 30,000
8	$30,001 and over

9. How much education have you had? Answer for both yourself and your husband or wife if you are married. (Circle the number).

Yourself		Your husband or wife
1	Up to the 8th grade	1
2	More than 8th, but did not graduate from high school	2
3	Graduated high school (or GED)	3
4	Some college or associate (2 year) degree	4
5	Graduate of 4-year college	5
6	Post-graduate work and/or Masters degree	6
7	Doctorate/PhD	7

10. How would you classify yourself? (Circle the number.)

- 1 Black, Afro-American, Negro
- 2 Asian-American, Oriental
- 3 Spanish origin—Mexican American, Cuban-American, Puerto Rican
- 4 White, Caucasian

11. What is your religious preference? (Circle the number.)

- 1 Catholic
- 2 Protestant (Baptist, Methodist, Lutheran, Presbyterian, Episcopal, Orthodox, etc.)
- 3 Jewish
- 4 Unitarian or similar religions
- 5 Eastern Religions, (Buddist, Moslem, etc.)
- 6 No religious orientation, Agnostic, Atheist, etc.

12. Please check to indicate your SEX. ____ MALE ____ FEMALE

13. What is your AGE? _______ years old.

14. What was your employment status over the past year? (Circle all that apply.)

- 1 Worked at a paying job:
  - a. Full-time (35 hours per week or more)
  - b. Part-time (1-14 hours per week)
  - c. Part-time (15-34 hours per week)
  - d. Worked most of the time (6-10 months) at a full-time job
  - e. Worked some of the time (2-5 months) at a full time job
- 2 Worked at a non-paying full-time job, such as "housewife."
- 3 Did not work and was not seeking a job. I was:
  - a. A full-time student
  - 4 b. Retired
  - c. Other
- 4 Worked less than 2 months but I was seeking work.

15. What is your regular job, e.g., plumber, computer programmer, "housewife," student, farmer, lawyer, etc.? (Be specific)

____

16. Circle the state you live in.

- 1. Alabama
- 2. Arkansas
- 3. Florida
- 4. Georgia
- 5. Kentucky
- 6. Louisiana
- 7. Mississippi
- 8. North Carolina
- 9. South Carolina
- 10. Tennessee
- 11. Texas
- 12. Virginia
- 13. West Virginia

17. Which best describes the area in which you live? (Circle the number.)

- 1 Urban, city of 1,000,000 or larger
- 2 Urban, city of 500,000 to 999,999
- 3 Urban, city of 100,000 to 499,000
- 4 Urban, city of 50,000 to 99,000
- 5 Suburban, within 30 miles of a city 500,000 or larger
- 6 Suburban, within 30 miles of a city 100,000 to 499,000
- 7 Town, not a suburb, from 10,000 to 49,000
- 8 Town, not a suburb, from 2,500 to 9,999
- 9 Rural farming area
- 10 Rural area, not farming

APPENDIX B

Sampling Procedures, Survey Procedures

and

Survey Return Results

Sampling

The following is a description of the Opinion Research Corporation's Master Sampling plan. The approach described was used to conduct the original telephone screening interviews to select a sample for the Leisure Activities Survey. There were actually two samples drawn. One was for 12 southern states (Alabama, Arkansas, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Louisianna, Virginia, Tennessee, and West Virginia) and the other was for Texas. This split was made to allow a separate analysis of the Texas data. Because the remaining 12 states were sampled as a bloc, it is not possible to do separate state-by-state analyses of the data. The combination of two samples, however, does permit an analysis of the entire 13-state group - what we are calling the South. The sample represents about 65,000,000 people who live in that region. Results may reasonably be projected to that population subject to sampling error and other possible biases discussed in the third section of this Appendix and in the text (Chapter 1).

The sampling procedure technique is a verbatum copy of ORC's description of its procedures.

The sample for this study, drawn in southern states, used a procedure built upon our national probability sample, as described below.

Sampling

Probability sampling techniques, the most accurate method of obtaining a representative sample of a population, are used in carrying out most ORC studies. For studies of the general public or defined segments of it, ORC employs a specially designed national probability sample. For studies of special publics, such as stockholders of a corporation, college students, or community thought leaders, ORC uses other methods to ensure a random sample that can be projected to the total group being studies within known error limits.

The ORC Master Sample

Opinion Research Corporation's master sample is based on a new probability sample design, prepared in consultation with J. Stevens Stock of Marketmath, Inc., and modified and updated by ORC.

The essential characteristic of probability sampling is that, for each person in the population under study, the probability that he will be included in the sample can be specified. This means that the degree of reliability of any finding from a study based on a probability sample can be estimated mathematically.

This new sample design is a major improvement over standard areal probability designs now in common use. These areal methods depend upon the use of maps showing geographic segments for which rough population estimates can be made. These maps are often out-of-date and otherwise inaccurate, and population estimates are frequently unreliable for small geographic areas, particularly as time passes from one census to another. The new sampling method eliminated these important problems of traditional probability sampling by using current address directories as the basis for a system of defining interviewing starting points -- a system which, of course, includes in the sample households not in the directory as well. The new method is both statistically and administratively as efficient as possible, providing the most reliable data for any given expenditure.

The ORC master sample consists of 360 counties in the contiguous United States. This master sample of 360 counties comprises, in fact, six subsamples of 60 counties each. Each of these subsamples is itself a national probability sample. Depending on the needs of any particular study, the master sample can be used as a whole, or any combination of the six subsamples can be used.

To construct the sample, all 3070 U.S. counties were grouped into areas designated by the U.S. Office of Business Economics. These 171 area groupings were then arranged in geographical order from north and east to south and west. Within these geographical oders, counties were arranged by descending population. Three hundred sixty co-nties were then chosen at random by systematic sampling to fit the above criteria.

The next step in the sampling design was to select an area from each of the 360 counties in the master sample. Again, a probability sampling method was used to select, within each county, a minor civil division as defined by the Bureau of the Census. A minor civil division may be a town, township, city, or part of a city. The probability that any particular minor civil division was selected in a county was proportional to the population of that minor civil division. Thus, the larger a minor civil division, the greater the likelihood that it be selected. The minor civil division, then, is the primary sampling unit.

Once the MCD has been selected, the next step is the determination of those households where interviewing is to take place. Under the ORC National Probability Sample procedure, any current listing of household locations, even if incomplete, constitutes the first stage of the sampling plan. From this list of households, one or more addresses are chosen at random. Each of these addresses defines the place at which the interviewer begins following the interviewing site selection process. The interviews in a cluster or "neighborhood" do not begin at the household selected from the list, but at the adjacent household, which may or may not be on the original list. Thus, the list does not define the universe of households in an MCD, but rather the list of households adjacent to possible starting points. Depending on the number of households contacted from each starting point, the number of starting points chosen, and the criteria for being included on the original list, every household in the MCD has a known, or knowable, probability of being included in the ORC sample.

Because they are the most up-to-date and the most complete listing of addresses available, telephone books are the sources of locations next to interviewing starting points when general public surveys are being done.

The specific persons to be interviewed are selected as follows:

(1) A certain number of starging points are selected from the telephone books covering the minor civil divisions, or communities, selected. The starting points are chosen so that each household, within the minor civil division, listed in the telephone book has an equal chance of being selected.

(2) Each starting point selected determines a group of households, called a "cluster", in which interviews are conducted. This cluster of households includes households both with and without listed telephones. The first household in which an interview is conducted is the household immediately to the left of the household selected from the telephone book as the starting point. Thus, the first household can be one either with or without a telephone.

(3) The interviewer conducts an interview in the first household and then (following a prescribed rule) works through the group of households. For example, interviews might be conducted in every third household. The interviewer continues working through the cluster until interviews have been completed in a preassigned number of households.

(4) A respondent-selection procedure determines for the interviewer which person to interview in any given household. The selection procedure varies depending upon who the eligible respondents are for the purpose of a particular study -- e.g., all adults age 21 and over, housewives, registered voters, etc. In any event. every eligible respondent in the household has the same chance to be interviewed as any other eligible respondent. The interviewer is not allowed to make any substitutions.

Once all interviews have been completed, weighting procedures are employed to ensure that the sample properly represents the population from which it was drawn.

Different sample sizes can be obtained by varying the number of subsamples of communities, the number of starting points within any community, the number of households selected within any cluster, or any combination of these factors.

This sampling procedure is rigorous in concept and practice and allows for the exact determination of the statistical precision of any finding.

In sampling for the WATS-line usage, we employ the basic ORC sampling plan to determine the telephone books which serve as primary sampling units. From each primary sampling unit, we draw an equal number of apparently residential telephone numbers. In order to obtain both listed and unlisted numbers, we add a fixed quantity (from one to ten) to each telephone number for purposes of providing a list of numbers for actual dialing. For example, if the number that comes to us is 672-2424, adding one, we would dial 672-2425. The result is an equal probability random selection of all residential telephone households in the United States.

Survey Procedures

Data were collected using comination mail/telephone survey procedure. A probability sample of 3,207 was selected from the 13 southern states using random digit dial techniques (described in the next section of this Appendix). Each of these individuals had indicated that they would respond to a mailed questionnaire on their leisure activities. This procedure took place in September/October, 1978. The sampling and telephoning was done by the Opinion Research Corporation, in Princeton, New Jersey.

Each of the 3,207 sample members was mailed a Leisure Activities Survey, using first-class postage and a personally addressed envelope, during the week of 13 November 1978.

During the week of 27 November each sample member from whom we had not received a completed questionnaire was sent a follow-up letter which again requested their cooperation and thanked those who had already completed the survey.

Beginning on 11 December 1978 an intensive telephone follow-up campaign was begun. In this effort we attempted to call each of the nonrespondents (at least three times) to remind them to return the surveys they had promised to complete. This procedure allowed us to contact about 2/3 of those who had still not returned their questionnaires.

Outside of a small special effort for the Texas subsample (as part of our effort on a special Texas report), no additional contact was made.

The telephone follow-up contacts allowed us to identify about 10% of the sample who said they had not received their questionnaires. These individuals were sent new questionnaires.

Survey Returns

A total of 3,306 names were obtained for mailing. These were allocated among the 13 states as follows:

	Surveys Mailed	Surveys Returned
Alabama	201	97
Arkansas	113	54
Florida	416	223
Georgia	277	144
Kentucky	200	116
Louisiana	239	123
Mississippi	130	57
North Carolina	305	150
South Carolina	150	65
Tennessee	236	121
Texas	663	325
Virginia	270	167
West Virginia	105	57
	3,306	1,699

In the right column are the gross returns. Both of the total figures are larger than the final operational numbers. Of 3,306 mailed surveys 110 were returned undeliverable. The basic sample is then reduced to 3,196. Of 1,699 returned surveys, 1,684 were usable and 15 were too incomplete to include. The final return rate, then, was 52.7%. This rate while lower than desirable in terms of an estimation of sample bias, represents a "good" return rate for a general public with a completion time of from 30 minutes to one hour. A confidence interval of ±2.4% at the .05 level would apply if there were returns from virtually all sample members. The confidence levels expand as the return rate goes down, but they are moderated by weighting procedures (discussed in APPENDIX C). Additional information on possible biases comes from follow-up surveys (APPENDIX D) and from the data themselves. In the final analysis there is no precise way to estimate bias when nonresponse exceeds minimal levels. Probably the best indicators are the data themselves, i.e., the extent to which results meet common sense expectations and generally conform to other sources.

APPENDIX C

Sample Balancing - Weighting

Sample Balancing - Weighting

As is usually the case with self-administered mail surveys, certain problems are introduced by differential response rates. There is generally a higher response rate from people with more education and people in middle age groups. These differences introduce nonresponse "biases" of the type discussed in APPENDIX B.

To introduce a degree of correction for these "biases" "sample balancing" was employed. A set of targets, which are the population values for the 13 Southern states, were drawn from the most recently available Census figures, and, through a process of iteration, the sample values are weighted to come as close as possible to these values. The interative process treats each variable separately but continues adjusting and weighting until all values are as close as possible given the other variables used. This process is not interactive. Thus, subsets of all variables are not combined then weighted.[1] The variables used to "balance" this sample are sex, age, education, income, and race. TABLE C1 presents the results of the weighting process and the weighting factors used in all analyses presented in this study with the exception of the factor and cluster analyses.[2]

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[1] While this process is preferable because it is more accurate, it is not feasible because of sample size limitations.

[2] Weighted data were not used for these analyses because the available computer programs could not accommodate the large weighted N's.

TABLE C1

Weighting

Variable	Unweighted Value (%)	Target Value (%)	Weighted Value (%)	Delta	Weight Factor
Sex					
Men	45	48.4	46.3	-2.1	1.3
Women	53.9	51.6	52.9	1.3	.9
Age					
15-19	4.8	13.3	11.4	-1.9	4.0
20-24	10.2	11.9	11.6	- .3	1.2
25-34	30.0	19.5	19.0	- .5	.7
35-44	17.0	14.4	15.3	.9	1.0
45-54	14.9	14.5	15.0	.5	1.1
55-64	11.8	12.5	12.6	.1	1.0
65 +	9.1	13.9	13.2	- .7	1.2
Education					
Highschool or less	43.5	72.8	70.2	-2.6	2.1
1-3 years college	25.1	14.9	14.1	-0.8	0.7
College grad	26.3	12.3	11.0	-1.3	0.6
Income					
up to $5,000	8.3	16.8	15.9	- .9	2.4
$5,001-8,000	6.7	15.4	14.1	-1.3	3.1
$8,001-10,000	7.7	9.8	9.6	- .3	1.5
$10,001-12,000	8.2	9.0	8.4	- .6	1.2
$12,001-15,000	12.6	13.2	12.6	- .7	1.2
$15,001-20,000	17.5	16.4	15.5	-1.0	1.4
$20,001-30,000	19.8	8.8	7.8	-1.0	.6
$30,001 +	12.9	10.2	9.4	- .9	1.5
Race					
White	87.9	79.7	80.1	.4	.9
Black	8.1	15.7	14.1	-1.6	2.1
Other	2.6	4.6	4.6	0.0	1.8

In reviewing the table it is apparent that not all adjustments are equal and that the procedure is more or less successful in meeting targets. The forcing of all categories to meet targets would create more distortion than it would resolve. It should also be considered that most of the analyses presented in this study are not dependent on the subgroup proportion because comparisons are made of results within subgroups which are then compared across all subgroups. For example, if 50% of the college graduates attended symphonies and only 20% of the high school graduates behave similarly, a comparison of these rates does not depend on the number in each group. If, however, we then wanted to aggregate percentages across all groups to identify an overall rate of symphony attendance the relative (weighted) values would be more important. Thus, the question of bias from nonresponse must be considered again. In the results of the weighting procedure described in TABLE C1 it can be seen that the weighted results are a fairly good approximation of population (target) values and that the weighting process had a substantial impact in some areas, for example among Blacks (from 8.1% to 14.1%), low income groups, and lower education groups. It is possible to argue that nonresponse bias was reduced by a substantial amount as a result of this weighting process.[3]

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[3] There is one small exception to this conclusion. Because we cut responses of young people off at age 18, the weighting may somewhat overrepresent the impact of the 18 and 19 year old group in our results. Since we have combined this into a much larger category, to 29 years old, the signs of this problem may only be an occasional data anomaly.

APPENDIX D

Follow-up Interviews

As part of our attempt to test for sample and return bias, two brief telephone follow-up surveys were conducted. The two surveys represented two distinct groups of people who did not respond to the survey. The first was a sample of 298 individuals who had originally agreed to respond, but who had not returned completed questionnaires. This group was interviewed by telephone by ORC interviewers during March 1979, approximately 2 months after the majority of all surveys had already been returned. They were selected from among 600 randomly chosen non-respondents. The cooperation rate for this group was relatively high, especially since an estimated 23% could not be reached because they had moved or the telephone number was not working at the time of the follow-up. However, the final sample had a considerably higher (15 percentage points) proportion of women than the original sample.

The second follow-up survey was conducted among those who had originally refused to cooperate in the survey when asked by ORC interviewers in October, 1978. Their telephone numbers were part of survey records and a random sample of the numbers was selected and called (with up to 3 call-backs) until 203 responses were obtained. There was a lack of control in the follow-up procedure over who was interviewed when the phone was answered, i.e., ORC records did not indicate who had refused in the October attempt. Interviewers attempted to overcome this probelm by asking if the individual remembered the original call, but they were often not successful.

The interview schedule used in the follow-up survey was a much shortened version of the original. Interviews were designated to take not longer than five minutes. A subset of five activities, watching TV, listening to records, painting, etc., attending symphony concerts, and visiting with friends and family, was included in the telephone survey. Questions were somewhat slightly reworded to accommodate the telephone medium. The most apparent difference between the two questionnaires was that the telephone survey presented an entirely different context for extimating time spent in current participation and expressing desire for increased participation.

With these probelms in mind, the results of the follow-up interviews, along with comparisons with return survey data, are presented in TABLE D.

The results are interesting, but they make it very difficult to draw from conclusions on any bias in the basic sample results. Television viewing is relatively consistent across all three groups. Desire for increasing TV viewing is somewhat higher among those answering on the telephone. Listening to records (undifferentiated by type) is higher for those who originally refused to cooperate, as is the desire to increase listening time. A similar result occurs for painting.

Both of the telephone samples are higher in symphony attendance and desire, with noncooperators again having more interest than nonrespondents. Both the telephone samples are less likely to report unavailability of symphony attendance opportunities. Finally, telephone respondents are likely to spend more time visiting friends and family, etc., but not more likely to want to increase participation.

These results may best be described as mixed. For non-arts

TABLE D

Results of Follow-up Surveys

	Those not returning questionnaires	Those who refused to cooperate in original survey	Returned questionnaires	Returned questionnaires (unweighted)
Average hours per week watching regular TV programs	14.07	13.57	14.73	13.87
Percent who would like to increase watching TV	30.50%	38.00%	25.30%	23.80%
Average hours per week listening to popular records	3.47	6.27	4.57	4.04
Percent who would like to increase listening to records	35.90%	62.00%	41.30%	45.50%
Average hours per week painting, drawing, sculpting, graphics, photo	1.38	3.23	1.09	.99
Percent who would like to increase painting, etc.	31.20%	55.10%	34.60%	39.90%
Percent who attended symphony in last year	2.80%	40.00%	16.50%	18.60%
Percent who thought symphonies were not available in their areas in the past year	15.10%	10.90%	36.00%	29.70%
Percent who would like to increase symphony attendance	37.60%	60.70%	21.20%	28.40%
Average hours per week visiting friends and relatives, etc.	9.84	11.81	5.60	5.14
Percent who would like to increase visits	58.10%	69.30%	56.40%	61.60%

activities (TV, records and visiting), the activity and desire for increased levels are not substantially different with the possible exception of the amount of time spent visiting. Overall there is a slight tendency for telephone respondents to have higher attendance and desire. For arts-related activities (painting, etc., and symphony attendance) there are strong differences in both attendance and desire, except for nonrespondents on painting. The face value interpretation of these results is that painters, etc., and symphony attenders are less likely to respond to the survey, thereby underestimating participation in arts related activities in the large sample. However, this interpretation should be tempered by other factors. First, the questions were asked in a context where the level of participation could be overextimated by the absence of necessary comparative factors and the perceived social desirability of a positeve response were high. Second, the results on the question of availability of symphony concerts suggests that the telephone respondents were largely big city residents. It would be difficult to argue that attendance caused the perception of availability. Activities more likely to have unusual availability showed much smaller differences. Third, all results except visiting friends and family, show a relationship between attendance and desire to increase participation (a positive association) which was a clear finding in general survey results. This suggests that the pattern of relationships described in the general survey is valid for the whole population regardless of the level of participation. Whether or not a general bias underestimating arts related activity participation exists is caught between a possible methodological problem (a big city bias) and an argument that it may, in fact, be reasonable to expect heavy arts related attenders to not cooperate on surveys. Given what is generally positive association between education and survey response, on the one hand, and education and arts related leisure activity choices, on the other, it is difficult to accept the latter argument. Other indicators suggest that arts activity participation levels are already overestimated in the survey and certainly in the telephone responses on symphony attendance. We would thus conclude that the mail survey responses represent a much better estimate of population behavior than the telephone results and given weighting are probably fairly close to confidence estimates associated directly with sample size.

APPENDIX E

Proportion of Respondents Failing to Answer Participation and Demographic Questions

TABLE E-1

Percent of Missing Data for Each Activity Variable

		Avail.	Partic. Before Age 18	Partic. After Age 18	Current Partic.	Desired Partic.
17.	Going to symphony or chamber concerts.	3.9	4.9	6.5	13.2	9.6
18.	Going to an opera.	3.5	5.2	5.9	12.5	9.5
13.	Going to choral concerts.	3.9	4.5	6.0	10.6	9.1
25.	Singing in or playing for a chorus, choir, or other singing group.	5.1	5.2	6.2	12.8	10.1
14.	Going to jazz concerts.	4.6	5.3	6.7	13.3	10.3
16.	Going to folk/ethnic concerts or festivals.	4.3	5.3	6.7	12.9	9.9
24.	Playing an instrument in a group or for your own entertainment or taking music lessons.	4.8	5.4	6.1	13.4	9.3
10.	Painting, drawing, making sculpture, doing graphic art, taking photographs (as art) or making films yourself.	5.2	5.5	6.8	13.4	9.3
11.	Doing crafts.	4.8	4.9	5.9	11.6	8.4
12.	Taking art classes in painting, sculpture, graphics, film, or crafts.	4.9	5.1	6.5	14.1	9.7
30.	Going to a ballet or modern dance performance.	5.0	5.8	6.6	13.6	10.0
31.	Going to a folk dancing performance.	4.9	5.9	6.7	13.9	10.8
26.	Going to theater performance.	4.5	5.6	6.4	11.6	8.9
27.	Acting in plays or musicals, performing in a dance group, taking lessons in either, or providing behind the scene support.	5.2	5.5	6.4	14.1	10.2
2.	Writing novels, stories, plays, or poetry, or taking classes in writing.		4.5	7.0	13.8	9.7
7.	Visiting painting, graphic arts, photography or sculpture exhibits.	4.4	5.4	6.2	10.6	9.3
8.	Visiting craft exhibits.	3.0	4.7	5.7	8.5	8.7
9.	Touring buildings, etc. for design or historic value or visiting history, science or technical museums.	3.9	4.5	5.7	8.9	8.2
20.	Listening on radio or watching on TV classical music, opera, or dancing.	4.3	5.8	6.7	11.5	10.0
23.	Watching performances of jazz on TV or listening on the radio.	5.0	5.6	6.5	12.6	10.3
29.	Listening to radio broadcasts, your own recordings or watching TV productions of plays or poetry.	4.9	5.5	6.2	11.4	10.3
3.	Taking classes or attending lectures on art history, literature, etc., or belonging to a literature club.	5.3	6.2	8.1	13.5	9.6

TABLE E-1 Continued

		Avail.	Partic. Before Age 18	Partic. After Age 18	Current Partic.	Desired Partic.
4.	Watching regular TV programs day and night except sports and news.		4.4	6.0	4.7	9.0
21.	Listening to radio broadcasts of all other music.		4.2	6.0	6.2	9.7
22.	Listening to recordings.	5.1	5.3	6.7	7.5	9.6
15.	Going to rock or country and western or rhythm and blues concerts.	4.0	4.9	6.1	10.7	9.0
19.	Going to fairs and carnivals.	3.6	5.0	5.3	7.1	8.7
28.	Going to the movies.	4.6	4.8	5.8	7.1	7.7
6.	Watching sports on TV or listening on radio.	4.1	4.6	5.6	6.7	9.4
32.	Going to watch sports in person.	4.9	5.0	5.9	8.7	8.7
35.	Playing competitive sports.		4.3	6.3	12.4	11.1
37.	Jogging, weight lifting or other exercise program.	5.8	5.6	6.5	10.5	9.4
33.	Camping, hiking, back-packing, hunting, fishing, etc.		3.9	5.0	9.5	8.0
40.	Picnicing, visits to parks, zoos, nature walks, or driving a car for pleasure.		3.6	5.2	8.0	9.1
42.	Playing with your children.			10.3	15.2	18.3
36.	Playing indoor activities or games with friends and/or family.		4.3	6.1	9.1	10.0
41.	Visiting with friends or family members, writing letters, talking to friends on the phone, etc.		3.4	5.6	5.2	9.1
34.	Going to church or doing other church-related activities.	2.8	3.6	4.5	5.6	9.5
44.	Playing with pets.		5.2	6.9	11.4	12.4
1.	Reading (fiction books, periodicals, and nonfiction).		2.9	5.2	4.8	6.1
5.	Watching news and information programs on TV or reading in newspapers and news/magazines.		4.2	5.2	3.4	8.3
43.	Do-it-yourself activities or hobbies.		3.9	5.6	7.1	9.1
45.	Sitting and thinking—day-dreaming.		4.2	6.5	12.1	12.1
38.	Charity, volunteer, social service, or political organization activities.		4.3	6.0	12.4	10.6
39.	Fraternal organization or club activities.		5.0	6.2	13.2	11.5

TABLE E-2

Proportion Failing to Answer Demographic Questions

Variable	Percent Failing to Answer
Number of Children 16 or Younger	24.5
Family Income	6.4
Education	4.9
Race	1.5
Religion	2.6
Sex	1.1
Age	2.2
Employment Status	2.1
Occupation	5.0
State	0.2
Community Size	3.0

APPENDIX F

Correlation Matrices and Factor Matrix for Current Participation Activities (D) and Desire to Increase Participation (E)

The following matrices provide correlation coeficients and the item loadings for the ten-factor solution. The correlation matrices show a measure of association for each pair of current participation (D) and desire to increase participation activities (E). Variables are listed on the side and top of the matrix by number. To identify particular relationship use the questionnaire in Apprndix A. Variables are in the same order as they appear in the questionnaire. The factor matrix shows, for each variable, the extent to which each variable loads (is related to other variables) on the factor

TABLE F-1
Correlation Matrix for Current Participation

	D1	D2	D3	D4	D5	D6	D7	D8	D9
D1	1.00								
D2	.13	1.00							
D3	.13	.16	1.00						
D4	.06	.08	- .01	1.00					
D5	.13	- .02	.04	.32	1.00				
D6	- .03	- .02	.02	.20	.32	1.00			
D7	.20	.12	.27	- .04	.11	- .01	1.00		
D8	.08	.08	.09	.10	.09	.01	.32	1.00	
D9	.11	.11	.11	- .04	.07	- .01	.36	.22	1.00
D10	.05	.20	.14	.05	- .00	.04	.25	.16	.23
D11	.07	.08	.00	.06	.11	.04	.08	.23	.09
D12	.10	.00	.12	.04	.04	.00	.16	.17	.03
D13	.02	.02	.09	- .01	.09	- .02	.06	.03	.02
D14	.05	.05	.12	.01	.09	.01	.17	.07	.11
D15	- .00	.06	.03	.01	.00	.06	.06	.03	.08
D16	.12	.12	.12	- .00	.06	.02	.21	.14	.11
D17	.18	.14	.19	- .08	.02	- .04	.33	.08	.13
D18	.11	.13	.11	- .06	.02	- .05	.24	.04	.09
D19	.01	.09	.08	.13	.11	.11	.06	.16	.10
D20	.06	.04	.03	.04	.07	.01	.08	.02	.03
D21	.06	.05	- .00	.17	.11	.14	.05	.08	.05
D22	.08	.17	.07	.06	.10	.12	.08	.07	.08
D23	.09	.04	.03	- .00	.02	.03	.06	.04	.04
D24	.08	.17	.04	.01	- .02	- .01	.07	.03	.06
D25	.01	.03	.03	.02	.03	- .00	- .01	.02	.03
D26	.12	.09	.15	- .08	.05	- .01	.28	.10	.15
D27	.09	.05	.05	- .01	- .01	- .03	.21	.10	.13
D28	.07	.12	.01	.12	- .00	.07	.13	.09	.18
D29	.11	.07	.06	.05	.04	.03	.14	.04	.03
D30	.09	.10	.18	- .03	- .02	- .03	.15	.04	.07
D31	.11	.05	.11	- .02	.00	.01	.20	.11	.10
D32	.02	.02	.03	- .03	- .00	.14	.02	.02	.03
D33	.02	.01	.00	- .10	- .03	.07	.05	.03	.03
D34	.01	.00	.02	.00	.04	.04	- .00	.10	- .00
D35	.23	.02	.04	.05	.03	.20	.00	- .05	.03
D36	.10	.03	.02	.19	.13	.15	.07	.07	.04
D37	.09	.09	.04	.05	.04	.10	.07	.03	.02
D38	.05	.01	.09	- .02	.06	.01	.11	.03	.04
D39	- .01	.01	.08	.02	.08	.04	.06	.03	.05
D40	.05	.20	.05	.13	.10	.08	.03	.09	.08
D41	.13	.17	.03	.18	.12	.09	.10	.13	.11
D42	- .03	.09	- .01	.19	.02	.03	- .05	.09	- .01
D43	.05	.19	- .01	.07	.09	- .02	.05	.13	.03
D44	.05	.14	- .00	.13	.02	.06	.02	.07	.02
D45	.08	.12	.05	.15	.02	.05	.07	.12	.05

TABLE F-1 Continued

	D10	D11	D12	D13	D14	D15	D16	D17	D18
D1									
D2									
D3									
D4									
D5									
D6									
D7									
D8									
D9									
D10	1.00								
D11	.11	1.00							
D12	.12	.17	1.00						
D13	.01	.08	.03	1.00					
D14	.06	.04	.04	.02	1.00				
D15	.12	-.01	.11	.02	.19	1.00			
D16	.07	.05	.07	.04	.23	.12	1.00		
D17	.08	.05	.06	.07	.20	.06	.22	1.00	
D18	.06	.02	.01	.09	.16	.01	.20	.49	1.00
D19	.05	.03	.07	.01	.12	.12	.24	-.00	.01
D20	.38	.01	.02	.05	.08	.03	.14	.15	.14
D21	.18	.05	.03	-.01	.08	.23	.09	-.01	-.01
D22	.21	.02	-.00	.05	.12	.19	.11	.06	.04
D23	.02	.05	.02	.03	.15	.06	.14	.12	.08
D24	.02	.01	-.00	.03	.06	.12	.08	.31	.10
D25	-.00	.03	.01	.17	.04	.03	.07	.08	.08
D26	.06	.05	.03	.06	.19	.03	.16	.27	.38
D27	.16	.00	.02	.00	.12	.09	.10	.09	.14
D28	.18	.03	.02	-.04	.11	.21	.12	.10	.02
D29	.05	.04	.16	.01	.08	.23	.11	.08	.11
D30	.04	.00	.02	.02	.18	.03	.14	.23	.24
D31	.03	.02	.09	.03	.14	.09	.34	.18	.16
D32	.01	-.02	-.02	.00	.04	.07	.09	.05	.01
D33	.01	-.00	-.00	-.03	.03	.05	.04	-.01	-.02
D34	.02	.02	.11	.20	-.01	-.03	-.00	.01	.03
D35	.05	-.04	.03	-.00	.03	.12	.18	-.01	-.01
D36	.06	.02	.02	-.00	.12	.07	.08	-.00	-.02
D37	.13	.05	.01	.01	.10	.11	.15	.03	.06
D38	.03	.05	.05	.02	.06	-.01	.07	.08	.10
D39	-.01	.05	.03	.02	.02	.00	.09	.06	.07
D40	.10	.04	-.00	.02	.05	.07	.07	-.04	-.01
D41	.24	.06	.07	-.00	.08	.11	.09	.05	-.01
D42	.06	.05	.03	.02	-.02	-.03	.02	.06	-.07
D43	.13	.19	.06	.02	.01	.06	.09	-.02	.01
D44	.07	.05	.05	-.01	.02	.05	.02	-.03	-.03
D45	.17	.06	.07	.02	.09	.16	.07	.02	.01

TABLE F-1 Continued

	D19	D20	D21	D22	D23	D24	D25	D26	D27
D1									
D2									
D3									
D4									
D5									
D6									
D7									
D8									
D9									
D10									
D11									
D12									
D13									
D14									
D15									
D16									
D17									
D18									
D19	1.00								
D20	.09	1.00							
D21	.16	.10	1.00						
D22	.13	.17	.46	1.00					
D23	.04	.10	.08	.07	1.00				
D24	.24	.04	.03	.16	.14	1.00			
D25	.06	.09	.07	.15	.10	.29	1.00		
D26	.09	.08	.04	.11	.09	.07	.05	1.00	
D27	.04	.03	.07	.10	.07	.11	.12	.17	1.00
D28	.19	.02	.26	.27	.04	.07	.12	.08	.11
D29	.03	.13	.19	.15	.12	.00	.06	.11	.06
D30	.02	.06	.03	.07	.06	.11	.06	.19	.15
D31	.14	.05	.07	.06	.06	.04	.05	.16	.10
D32	.13	- .02	.02	.05	.03	- .00	- .00	.06	.01
D33	.06	- .04	.10	.09	.00	.01	- .02	- .00	- .01
D34	.01	.04	- .00	.02	- .01	- .01	.15	- .00	.07
D35	.14	.08	.12	.17	.04	.02	.15	.00	.02
D36	.13	.08	.18	.21	.04	.02	.09	.08	.08
D37	.10	.07	.16	.22	.03	.06	.07	.05	.10
D38	.04	.01	.02	- .01	.01	- .00	.00	.10	.02
D39	.04	.01	.02	.02	.02	.01	.04	.10	.07
D40	.18	.12	.21	.26	.16	.04	.05	.06	.02
D41	.12	.10	.30	.28	.06	.09	.08	.03	.20
D42	.11	.04	.10	.12	.01	- .03	.04	- .07	- .01
D43	.06	.08	.09	.08	- .01	- .01	.01	.01	.05
D44	.06	.03	.19	.20	- .01	.07	.04	- .01	- .01
D45	.13	.05	.26	.25	.13	.07	.11	.00	.14

TABLE F-1 Continued

	D28	D29	D30	D31	D32	D33	D34	D35	D36
D1									
D2									
D3									
D4									
D5									
D6									
D7									
D8									
D9									
D10									
D11									
D12									
D13									
D14									
D15									
D16									
D17									
D18									
D19									
D20									
D21									
D22									
D23									
D24									
D25									
D26									
D27									
D28	1.00								
D29	.04	1.00							
D30	.07	.07	1.00						
D31	.03	.02	.18	1.00					
D32	.12	- .02	.04	.07	1.00				
D33	.09	.05	- .01	.04	.09	1.00			
D34	- .01	.06	.00	.01	- .01	- .02	1.00		
D35	.11	.09	.00	.05	.15	.10	.01	1.00	
D36	.17	.13	.01	.01	.03	.04	.04	.22	1.00
D37	.15	.09	.05	.03	.12	.08	.03	.29	.24
D38	.00	.02	.05	.05	.01	- .02	.09	.00	.06
D39	- .00	.05	.04	.06	.06	.02	.00	.02	.09
D40	.09	.16	.06	.03	.02	.06	.01	.05	.21
D41	.23	.05	.05	.03	.01	.06	.14	.09	.26
D42	.07	.01	- .03	.00	.02	.02	.03	.06	.14
D43	- .02	.13	.01	.02	- .05	.01	.11	.00	.08
D44	.13	.06	- .00	- .02	.01	.05	.03	.08	.10
D45	.23	.11	.02	.16	.01	.01	.14	.11	.11

TABLE F-1 Continued

	D37	D38	D39	D40	D41	D42	D43	D44	D45
D1									
D2									
D3									
D4									
D5									
D6									
D7									
D8									
D9									
D10									
D11									
D12									
D13									
D14									
D15									
D16									
D17									
D18									
D19									
D20									
D21									
D22									
D23									
D24									
D25									
D26									
D27									
D28									
D29									
D30									
D31									
D32									
D33									
D34									
D35									
D36									
D37	1.00								
D38	.03	1.00							
D39	.02	.11	1.00						
D40	.13	.02	.05	1.00					
D41	.19	.06	.01	.24	1.00				
D42	.06	.02	.00	.15	.12	1.00			
D43	.10	.07	.04	.16	.16	.14	1.00		
D44	.13	.01	.00	.12	.24	.10	.14	1.00	
D45	.16	.08	.03	.18	.30	.13	.16	.27	1.00

TABLE F-2
Correlation Matrix for Desire to Increase Participation

	E1	E2	E3	E4	E5	E6	E7	E8	E9
E1	1.00								
E2	.22	1.00							
E3	.23	.38	1.00						
E4	.03	.01	.04	1.00					
E5	.27	.07	.16	.38	1.00				
E6	.03	.02	.02	.33	.35	1.00			
E7	.27	.28	.44	.03	.14	-.03	1.00		
E8	.17	.14	.26	.14	.18	-.02	.42	1.00	
E9	.24	.15	.35	.09	.23	.01	.45	.39	1.00
E10	.23	.30	.33	.07	.15	-.02	.45	.44	.29
E11	.18	.15	.21	.08	.13	.01	.27	.57	.29
E12	.20	.26	.35	-.01	.12	-.02	.46	.39	.24
E13	.17	.13	.22	.17	.22	.13	.19	.26	.28
E14	.14	.21	.20	.05	.11	.09	.28	.10	.18
E15	.10	.10	.07	.21	.19	.21	.14	.18	.14
E16	.15	.21	.26	.13	.19	.11	.29	.28	.27
E17	.23	.21	.32	-.03	.09	-.03	.41	.14	.28
E18	.15	.20	.32	-.01	.07	-.04	.32	.15	.22
E19	.07	.11	.17	.32	.23	.27	.15	.26	.21
E20	.14	.17	.22	.19	.26	.12	.28	.19	.22
E21	.08	.10	.08	.35	.37	.33	.09	.18	.13
E22	.21	.18	.18	.23	.28	.21	.17	.21	.25
E23	.11	.20	.20	.18	.20	.17	.21	.12	.14
E24	.20	.24	.15	-.05	.09	.05	.21	.11	.14
E25	.14	.18	.21	.09	.19	.11	.16	.20	.18
E26	.25	.27	.32	.01	.15	-.00	.43	.25	.35
E27	.12	.33	.29	.05	.11	.05	.24	.19	.19
E28	.17	.09	.11	.27	.25	.21	.13	.21	.17
E29	.21	.24	.37	.14	.22	.09	.37	.23	.30
E30	.17	.24	.32	-.02	.09	-.05	.34	.20	.21
E31	.16	.20	.27	.06	.16	.07	.31	.26	.27
E32	.07	.01	.04	.12	.23	.47	.01	.02	.10
E33	.19	.10	.11	.07	.16	.19	.11	.12	.17
E34	.12	.05	.04	.18	.21	.17	.02	.17	.09
E35	.07	.10	.05	.05	.15	.29	.04	-.03	.06
E36	.16	.08	.10	.17	.25	.27	.11	.19	.16
E37	.18	.16	.19	.07	.19	.15	.19	.17	.16
E38	.12	.21	.26	.13	.21	.14	.17	.20	.21
E39	.07	.09	.14	.16	.25	.22	.09	.11	.13
E40	.19	.12	.15	.20	.22	.13	.21	.32	.34
E41	.18	.09	.12	.23	.29	.17	.12	.18	.19
E42	.10	.02	.04	.15	.14	.13	.01	.11	.09
E43	.20	.11	.17	.13	.21	.10	.20	.32	.25
E44	.11	.08	.13	.25	.24	.21	.12	.17	.19
E45	.13	.13	.16	.19	.23	.19	.13	.08	.12

TABLE F-2 Continued

	E10	E11	E12	E13	E14	E15	E16	E17	E18
E1									
E2									
E3									
E4									
E5									
E6									
E7									
E8									
E9									
E10	1.00								
E11	.47	1.00							
E12	.62	.44	1.00						
E13	.19	.23	.16	1.00					
E14	.17	.08	.19	.13	1.00				
E15	.12	.13	.12	.12	.29	1.00			
E16	.22	.19	.23	.21	.28	.33	1.00		
E17	.19	.13	.21	.20	.22	.02	.27	1.00	
E18	.17	.16	.19	.19	.14	-.01	.22	.61	1.00
E19	.20	.23	.12	.23	.17	.37	.28	.08	.10
E20	.19	.18	.18	.25	.19	.10	.26	.37	.40
E21	.15	.14	.10	.20	.18	.43	.23	-.01	-.01
E22	.23	.22	.15	.20	.23	.29	.22	.17	.12
E23	.19	.08	.14	.16	.61	.20	.23	.17	.10
E24	.25	.20	.24	.23	.19	.16	.17	.23	.15
E25	.21	.20	.18	.49	.11	.11	.15	.17	.19
E26	.20	.18	.30	.16	.23	.11	.28	.42	.37
E27	.27	.17	.29	.21	.21	.19	.22	.23	.26
E28	.18	.21	.15	.12	.16	.38	.17	.03	.01
E29	.24	.18	.25	.22	.18	.08	.25	.35	.34
E30	.23	.15	.30	.16	.25	.07	.24	.45	.46
E31	.23	.23	.23	.20	.17	.16	.48	.27	.25
E32	.01	.01	.01	.09	.15	.28	.11	-.03	-.06
E33	.16	.17	.13	.06	.13	.30	.17	.06	-.00
E34	.12	.16	.04	.34	.01	.08	.04	.00	.00
E35	.08	-.00	.07	.02	.18	.24	.11	.02	-.02
E36	.14	.17	.13	.16	.16	.29	.19	.08	.05
E37	.21	.17	.21	.13	.21	.26	.18	.09	.05
E38	.21	.17	.17	.28	.14	.10	.16	.12	.09
E39	.12	.08	.11	.19	.13	.08	.16	.05	.07
E40	.24	.29	.18	.20	.15	.31	.22	.10	.07
E41	.19	.21	.13	.23	.12	.21	.17	.10	.09
E42	.09	.17	.06	.17	.00	.10	.09	-.00	-.01
E43	.30	.40	.26	.21	.09	.16	.19	.11	.09
E44	.17	.14	.15	.12	.17	.29	.15	.05	.02
E45	.14	.13	.10	.07	.10	.16	.09	.11	.09

TABLE F-2 Continued

	E19	E20	E21	E22	E23	E24	E25	E26	E27
E1									
E2									
E3									
E4									
E5									
E6									
E7									
E8									
E9									
E10									
E11									
E12									
E13									
E14									
E15									
E16									
E17									
E18									
E19	1.00								
E20	.21	1.00							
E21	.36	.33	1.00						
E22	.29	.31	.45	1.00					
E23	.23	.30	.33	.30	1.00				
E24	.12	.12	.09	.24	.17	1.00			
E25	.23	.20	.15	.25	.14	.42	1.00		
E26	.13	.26	.07	.21	.18	.21	.15	1.00	
E27	.20	.21	.15	.19	.23	.31	.36	.34	1.00
E28	.40	.13	.35	.30	.15	.10	.14	.20	.13
E29	.17	.45	.20	.31	.26	.13	.20	.39	.27
E30	.09	.28	.02	.14	.16	.20	.18	.40	.36
E31	.18	.28	.16	.17	.16	.14	.15	.32	.23
E32	.24	.02	.25	.20	.12	.07	.08	.15	.08
E33	.22	.05	.24	.26	.10	.20	.14	.12	.10
E34	.19	.16	.24	.17	.10	.11	.25	- .01	.08
E35	.18	.01	.22	.19	.15	.21	.10	.08	.11
E36	.30	.15	.33	.31	.15	.18	.18	.19	.13
E37	.19	.09	.21	.23	.14	.26	.20	.15	.20
E38	.16	.19	.20	.21	.15	.17	.25	.15	.22
E39	.19	.16	.17	.13	.15	.09	.17	.10	.15
E40	.39	.18	.31	.31	.16	.15	.18	.20	.14
E41	.29	.24	.32	.32	.17	.13	.23	.13	.13
E42	.18	.10	.20	.17	.06	.06	.13	- .00	- .00
E43	.21	.18	.23	.27	.13	.20	.19	.17	.13
E44	.30	.18	.35	.26	.18	.15	.14	.10	.15
E45	.20	.19	.28	.29	.14	.13	.09	.14	.15

TABLE F-2 Continued

	E28	E29	E30	E31	E32	E33	E34	E35	E36
E1									
E2									
E3									
E4									
E5									
E6									
E7									
E8									
E9									
E10									
E11									
E12									
E13									
E14									
E15									
E16									
E17									
E18									
E19									
E20									
E21									
E22									
E23									
E24									
E25									
E26									
E27									
E28	1.00								
E29	.18	1.00							
E30	.09	.29	1.00						
E31	.13	.32	.39	1.00					
E32	.31	.05	.00	.10	1.00				
E33	.29	.11	.07	.14	.33	1.00			
E34	.12	.10	.01	.07	.13	.16	1.00		
E35	.22	.05	.04	.04	.39	.33	.08	1.00	
E36	.39	.19	.10	.15	.35	.33	.22	.36	1.00
E37	.25	.11	.16	.11	.23	.35	.20	.39	.32
E38	.11	.22	.15	.16	.15	.13	.34	.16	.25
E39	.07	.17	.08	.16	.18	.09	.26	.12	.20
E40	.36	.23	.11	.22	.20	.35	.30	.17	.37
E41	.30	.22	.04	.16	.19	.25	.38	.16	.37
E42	.19	.06	.01	.05	.14	.23	.33	.09	.23
E43	.23	.20	.14	.23	.16	.29	.24	.11	.31
E44	.22	.20	.07	.13	.21	.25	.17	.21	.28
E45	.20	.19	.11	.10	.16	.16	.11	.14	.22

TABLE F-2 Continued

	E37	E38	E39	E40	E41	E42	E43	E44	E45
E1									
E2									
E3									
E4									
E5									
E6									
E7									
E8									
E9									
E10									
E11									
E12									
E13									
E14									
E15									
E16									
E17									
E18									
E19									
E20									
E21									
E22									
E23									
E24									
E25									
E26									
E27									
E28									
E29									
E30									
E31									
E32									
E33									
E34									
E35									
E36									
E37	1.00								
E38	.24	1.00							
E39	.13	.39	1.00						
E40	.26	.24	.16	1.00					
E41	.26	.28	.18	.46	1.00				
E42	.18	.17	.13	.33	.31	1.00			
E43	.30	.22	.17	.39	.38	.29	1.00		
E44	.23	.20	.19	.31	.29	.14	.28	1.00	
E45	.14	.18	.12	.24	.27	.11	.21	.30	1.00

TABLE F-3
Factor Matrix for Current Participation

	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
D1	.24	.05	.17	.09	.08
D2	.20	.10	.15	.41	-.07
D3	.27	-.01	.21	.03	-.01
D4	-.10	.14	.02	.24	.42
D5	.09	-.00	.11	.02	.74
D6	-.05	.09	-.01	-.02	.42
D7	.43	.09	.58	-.08	.02
D8	.05	.07	.48	.14	.07
D9	.18	.15	.41	-.04	.01
D10	.10	.30	.35	.14	-.06
D11	-.00	-.03	.27	.18	.10
D12	-.01	-.01	.30	.03	.01
D13	.09	.03	.03	.00	.05
D14	.29	.14	.06	.05	.05
D15	.00	.29	.08	-.07	-.03
D16	.31	.00	.10	.09	.00
D17	.60	-.02	.12	-.06	-.04
D18	.65	-.04	-.03	-.01	-.05
D19	.02	.14	.09	.14	.14
D20	.20	.07	-.06	.12	.07
D21	-.00	.57	-.02	.11	.16
D22	.12	.53	-.03	.16	.09
D23	.14	.07	-.01	.04	.03
D24	.15	.10	.03	.03	-.03
D25	.07	.12	-.06	.00	.01
D26	.51	.06	.09	-.05	.00
D27	.22	.23	.14	-.03	-.08
D28	.05	.45	.13	.00	.02
D29	.14	.09	.06	.10	.02
D30	.37	.06	.01	.01	-.07
D31	.26	.04	.10	-.01	-.05
D32	.04	.03	.01	-.06	.03
D33	-.02	.09	.04	-.01	-.01
D34	-.01	.06	.05	.06	-.00
D35	-.01	.06	-.05	.03	.06
D36	.08	.22	-.01	.20	.21
D37	.10	.20	.01	.17	.03
D38	.16	-.00	.06	.05	.04
D39	.13	-.02	.03	.03	.08
D40	.06	.23	-.01	.37	.13
D41	.06	.48	.12	.29	.11
D42	-.10	.10	-.01	.32	.07
D43	.01	.04	.13	.43	.01
D44	-.06	.26	.04	.27	.03
D45	-.00	.42	.09	.24	-.02

TABLE F-3 Continued

	Factor 6	Factor 7	Factor 8	Factor 9	Factor 10
D1	.03	.05	- .02	.06	.00
D2	.04	.16	- .02	- .03	- .12
D3	.07	.01	.05	.02	.01
D4	- .02	.01	.04	- .02	.00
D5	- .03	- .02	.00	.03	.08
D6	.24	- .01	.02	.02	.00
D7	.06	- .03	.01	.04	- .02
D8	- .06	- .01	.16	- .01	.09
D9	.05	.02	.03	- .07	- .06
D10	.07	- .02	- .07	- .01	- .04
D11	- .07	.02	.05	.07	.09
D12	- .01	- .02	.08	.21	.16
D13	- .02	.07	.01	.03	.30
D14	.04	.02	.22	.10	- .01
D15	.11	.10	.15	.31	- .07
D16	.20	.05	.46	.11	.01
D17	- .03	.27	.03	.03	.01
D18	- .05	.05	.01	.04	.08
D19	.18	.01	.37	- .01	- .02
D20	.03	.04	.05	.15	.06
D21	.07	- .02	.08	.23	- .05
D22	.16	.13	.01	.15	- .03
D23	- .00	.14	.13	.16	.02
D24	- .02	.70	- .01	- .00	.02
D25	.10	.37	.05	.03	.35
D26	.02	- .02	.06	.03	.01
D27	.03	.03	.02	- .03	.13
D28	.18	.09	.11	- .06	- .07
D29	.06	- .03	- .04	.59	.04
D30	- .01	.06	.10	.00	.00
D31	.03	- .02	.43	.01	.05
D32	.27	- .00	.14	- .07	- .05
D33	.17	- .01	.04	.04	- .09
D34	- .01	- .03	- .02	.01	.51
D35	.62	.06	.06	.09	.08
D36	.28	- .03	- .02	.06	.06
D37	.42	.00	- .02	.05	.05
D38	.01	- .09	.03	- .02	.13
D39	.05	- .03	.06	.01	.06
D40	.06	.01	.06	.12	- .05
D41	.08	.01	- .03	- .06	.12
D42	.05	- .02	.08	- .05	.05
D43	- .04	- .07	.01	.12	.11
D44	.06	.05	- .04	.02	.03
D45	.04	.02	.15	.06	.19

TABLE F-4
Factor Matrix for Desire to Increase Participation

	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
E1	.27	.06	.20	.16	.16
E2	.31	.02	.28	.12	- .04
E3	.44	.06	.35	.07	- .02
E4	- .04	.58	.01	- .02	.11
E5	.13	.50	.08	.14	.12
E6	- .05	.48	- .12	.35	- .04
E7	.49	.03	.47	.06	.01
E8	.14	.14	.57	- .07	.23
E9	.34	.10	.30	.07	.18
E10	.18	.08	.72	.06	.11
E11	.10	.09	.57	- .02	.29
E12	.24	.01	.68	.10	.02
E13	.18	.17	.09	- .08	.21
E14	.21	.04	.07	.19	- .00
E15	- .01	.32	.10	.36	.10
E16	.32	.14	.16	.12	.07
E17	.73	- .04	.02	- .00	.05
E18	.70	.00	.02	- .09	.03
E19	.06	.42	.12	.19	.20
E20	.49	.36	.04	- .15	.17
E21	.00	.62	.06	.17	.23
E22	.20	.41	.13	.19	.26
E23	.16	.27	.07	.04	.04
E24	.20	- .05	.19	.26	.09
E25	.16	.12	.11	.08	.13
E26	.58	.03	.18	.18	.01
E27	.34	.08	.23	.14	- .05
E28	.05	.38	.14	.34	.22
E29	.53	.26	.17	- .01	.11
E30	.59	- .06	.16	.06	- .01
E31	.42	.07	.17	.05	.09
E32	- .03	.26	- .09	.58	.04
E33	.05	.09	.11	.50	.30
E34	- .05	.15	.01	.01	.48
E35	.01	.10	- .ol	.62	.05
E36	.09	.25	.05	.44	.34
E37	.09	.04	.19	.46	.24
E38	.15	.10	.15	.13	.25
E39	.08	.16	.04	.10	.13
E40	.11	.22	.19	.22	.56
E41	.11	.28	.07	.16	.56
E42	- .04	.11	.03	.10	.47
E43	.12	.13	.30	.17	.48
E44	.06	.34	.13	.23	.24
E45	.17	.33	.09	.17	.18

TABLE F-4 Continued

	Factor 6	Factor 7	Factor 8	Factor 9	Factor 10
E1	.06	.05	- .00	- .12	.16
E2	.14	.15	.11	- .01	- .13
E3	.07	.09	.18	.00	.09
E4	.01	.02	.11	.07	.08
E5	.05	.01	.21	- .05	.17
E6	.04	- .01	.25	.02	.06
E7	- .00	.16	.02	.04	.23
E8	.08	- .01	.01	.25	.24
E9	.05	.06	.04	.10	.39
E10	.10	.09	.06	- .01	- .05
E11	.13	- .05	- .03	.14	.07
E12	.07	.06	.06	.03	- .07
E13	.50	.04	.22	.11	.23
E14	.05	.74	.03	.12	.06
E15	.09	.20	- .15	.37	- .02
E16	.04	.16	.09	.48	.04
E17	.10	.07	- .05	- .01	.06
E18	.12	- .02	- .01	.04	- .02
E19	.15	.07	.01	.29	.05
E20	.07	.13	.09	.03	- .09
E21	.06	.18	.03	.14	- .12
E22	.15	.18	- .05	- .02	- .04
E23	.07	.69	.10	.03	- .02
E24	.46	.13	- .03	- .04	- .11
E25	.73	.01	.12	.02	.02
E26	.04	.06	- .01	.09	.14
E27	.33	.11	.11	.12	- .17
E28	.04	.03	- .15	.15	.08
E29	.02	.09	.11	- .00	.02
E30	.10	.06	.04	.15	- .09
E31	- .01	.02	.15	.41	.01
E32	- .01	.00	.16	.09	.14
E33	.03	.03	- .05	.06	.02
E34	.22	- .00	.35	- .03	.04
E35	.05	.10	.09	- .02	- .06
E36	.05	.02	.07	.09	.02
E37	.13	.10	.08	.01	- .04
E38	.15	.07	.49	- .00	.02
E39	.07	.05	.50	.07	.01
E40	.02	.06	- .02	.16	.11
E41	.08	.05	.11	- .01	- .01
E42	.05	- .02	.10	.02	.02
E43	.04	- .01	.07	.05	.01
E44	.02	.09	.07	.04	- .06
E45	- .02	.03	.03	- .10	- .12

APPENDIX G

Frequencies of Cost

Frequencies for Distance Traveled

TABLE G-1

Cost of Participating in Leisure Activities

		Average Cost	Standard Deviation	% Who Indicated No Cost
17.	Going to symphony or chamber concerts.	4.430	8.792	9.2
18.	Going to an opera.	3.878	8.652	8.5
13.	Going to choral concerts.	2.129	4.480	17.9
25.	Singing in or playing for a chorus, choir, or other singing group.	0.961	5.696	15.4
14.	Going to jazz concerts.	4.793	9.674	8.5
16.	Going to folk/ethnic concerts or festivals.	3.536	9.967	9.0
24.	Playing an instrument in a group or for your own entertainment or taking music lessons.	1.757	7.588	12.8
10.	Painting, drawing, making sculpture, doing graphic art, taking photographs (as art) or making films yourself.	6.187	15.686	11.5
11.	Doing crafts.	9.633	20.734	12.6
12.	Taking art classes in painting, sculpture, graphics, film, or crafts.	9.591	23.248	8.9
30.	Going to a ballet or modern dance performance.	5.600	13.138	7.0
31.	Going to a folk dancing performance.	2.724	6.574	7.8
26.	Going to theater performance.	9.027	14.869	6.2
27.	Acting in plays or musicals, performing in a dance group, taking lessons in either, or providing behind the scene support.	2.800	13.845	8.8
2.	Writing novels, stories, plays, or poetry, or taking classes in writing.	5.092	16.606	13.6
7.	Visiting painting, graphic arts, photography or sculpture exhibits.	1.780	7.719	18.4
8.	Visiting craft exhibits.	1.727	6.737	22.7
9.	Touring buildings, etc. for design or historic value or visiting history, science or technical museums.	4.061	11.238	15.1
20.	Listening on radio or watching on TV classical music, opera, or dancing.			
23.	Watching performances of jazz on TV or listening on the radio.			
29.	Listening to radio broadcasts, your own recordings or watching TV productions of plays or poetry.			
3.	Taking classes or attending lectures on art history, literature, etc., or belonging to a literature club.	8.198	20.694	11.7

Cost of Participating in Leisure Activities
Continued

		Average Cost	Standard Deviation	% Who Indicated No Cost
4.	Watching regular TV programs day and night except sports and news.			
21.	Listening to radio broadcasts of all other music.			
22.	Listening to recordings.			
15.	Going to rock or country and western or rhythm and blues concerts.	9.600	12.486	5.4
19.	Going to fairs and carnivals.	9.967	16.712	7.1
28.	Going to the movies.	8.154	17.938	2.9
6.	Watching sports on TV or listening on radio.			
32.	Going to watch sports in person.	8.385	14.592	6.0
35.	Playing competitive sports.	2.603	10.158	15.3
37.	Jogging, weight lifting or other exercise program.	3.101	14.208	20.7
33.	Camping, hiking, back-packing, hunting, fishing, etc.	12.945	23.535	14.9
40.	Picnicing, visits to parks, zoos, nature walks, or driving a car for pleasure.	7.021	16.166	17.1
42.	Playing with your children.			
36.	Playing indoor activities or games with friends and/or family.	1.247	6.293	29.9
41.	Visiting with friends or family members, writing letters, talking to friends on the phone, etc.	10.693	25.595	23.4
34.	Going to church or doing other church-related activities.			
44.	Playing with pets.			
1.	Reading (fiction books, periodicals, and nonfiction).			
5.	Watching news and information programs on TV or reading in newspapers and news/magazines.			
43.	Do-it-yourself activities or hobbies.	15.883	28.007	13.5
45.	Sitting and thinking—day-dreaming.			
38.	Charity, volunteer, social service, or political organization activities.	5.058	17.474	12.4
39.	Fraternal organization or club activities.	7.319	18.140	9.3

TABLE G-2

Distance Traveled to Participate in Leisure Activities

		Average Distance Traveled	Standard Deviation	% Who Indicated Over 10 Miles	% Who Indicated Over 30 Miles
17.	Going to symphony or chamber concerts.	9.702	19.780	24.0	5.0
18.	Going to an opera.	14.740	54.543	22.6	8.7
13.	Going to choral concerts.	10.414	17.400	23.3	6.6
25.	Singing in or playing for a chorus, choir, or other singing group.	5.519	8.732	14.9	2.9
14.	Going to jazz concerts.	19.261	60.045	28.6	11.7
16.	Going to folk/ethnic concerts or festivals.	18.484	47.214	38.3	16.1
24.	Playing an instrument in a group or for your own entertainment or taking music lessons.	6.478	18.789	11.5	4.3
10.	Painting, drawing, making sculpture, doing graphic art, taking photographs (as art) or making films yourself.	14.951	57.922	20.7	9.8
11.	Doing crafts.	5.037	12.938	10.6	2.6
12.	Taking art classes in painting, sculpture, graphics, film, or crafts.	6.103	14.179	14.2	4.6
30.	Going to a ballet or modern dance performance.	13.380	40.717	26.0	9.0
31.	Going to a folk dancing performance.	25.824	90.861	27.5	14.2
26.	Going to theater performance.	22.380	57.926	39.0	13.7
27.	Acting in plays or musicals, performing in a dance group, taking lessons in either, or providing behind the scene support.	10.873	64.104	8.5	4.3
2.	Writing novels, stories, plays, or poetry, or taking classes in writing.	5.452	23.892	10.0	3.7
7.	Visiting painting, graphic arts, photography or sculpture exhibits.	23.344	63.775	35.0	15.2
8.	Visiting craft exhibits.	21.931	48.887	39.1	14.5
9.	Touring buildings, etc. for design or historic value or visiting history, science or technical museums.	71.685	35.328	67.2	34.9
20.	Listening on radio or watching on TV classical music, opera, or dancing.				
23.	Watching performances of jazz on TV or listening on the radio.				
29.	Listening to radio broadcasts, your own recordings or watching TV productions of plays or poetry.				
3.	Taking classes or attending lectures on art history, literature, etc., or belonging to a literature club.	5.664	14.677	12.2	2.8

Distance Traveled to Participate in Leisure Activities
Continued

		Average Distance Traveled	Standard Deviation	% Who Indicated Over 10 Miles	% Who Indicated Over 30 Miles
4.	Watching regular TV programs day and night except sports and news.				
21.	Listening to radio broadcasts of all other music.				
22.	Listening to recordings.				
15.	Going to rock or country and western or rhythm and blues concerts.	29.777	45.649	55.3	26.8
19.	Going to fairs and carnivals.	24.898	51.991	45.6	15.8
28.	Going to the movies.	11.045	14.546	29.0	5.6
6.	Watching sports on TV or listening on radio.				
32.	Going to watch sports in person.	34.140	83.491	46.2	21.9
35.	Playing competitive sports.	8.674	25.203	14.3	5.6
37.	Jogging, weight lifting or other exercise program.	2.650	7.554	4.0	1.2
33.	Camping, hiking, back-packing, hunting, fishing, etc.	72.623	123.166	68.8	42.9
40.	Picnicing, visits to parks, zoos, nature walks, or driving a car for pleasure.	38.449	73.664	61.1	26.6
42.	Playing with your children.				
36.	Playing indoor activities or games with friends and/or family.	5.519	25.682	9.5	1.9
41.	Visiting with friends or family members, writing letters, talking to friends on the phone, etc.	66.610	155.682	41.9	26.3
34.	Going to church or doing other church-related activities.				
44.	Playing with pets.				
1.	Reading (fiction books, periodicals, and nonfiction).				
5.	Watching news and information programs on TV or reading in newspapers and news/magazines.				
43.	Do-it-yourself activities or hobbies.	6.664	28.398	10.3	3.9
45.	Sitting and thinking—day-dreaming.				
38.	Charity, volunteer, social service, or political organization activities.	8.601	35.895	12.3	2.2
39.	Fraternal organization or club activities.	7.768	20.630	15.1	2.2

APPENDIX H

Distribution of Perceived Availability

TABLE H

Distribution of Perceived Availability*

		Never Available	Available Occasionally	Available Regularly	Always Available	Don't Know If It Was Available
17.	Going to symphony or chamber concerts.	36.0	27.9	19.7	4.4	12.1
18.	Going to an opera.	47.7	23.8	8.6	2.3	17.6
13.	Going to choral concerts.	19.1	38.9	23.4	10.4	8.2
25.	Singing in or playing for a chorus, choir, or other singing group.	28.4	14.8	20.2	27.4	9.2
14.	Going to jazz concerts.	40.0	30.8	11.7	4.1	13.4
16.	Going to folk/ethnic concerts or festivals.	33.3	38.8	11.6	2.3	14.0
24.	Playing an instrument in a group or for your own entertainment or taking music lessons.	37.5	11.3	15.3	27.2	8.7
10.	Painting, drawing, making sculpture, doing graphic art, taking photographs (as art) or making films yourself.	32.7	20.6	17.5	15.8	13.5
11.	Doing crafts.	22.9	24.8	20.8	22.0	9.5
12.	Taking art classes in painting, sculpture, graphics, film, or crafts.	34.7	16.7	21.1	16.8	10.7
30.	Going to a ballet or modern dance performance.	39.5	27.5	12.7	2.7	17.6
31.	Going to a folk dancing performance.	38.4	32.1	6.2	1.1	22.2
26.	Going to theater performance.	28.4	26.9	26.0	10.9	7.8
27.	Acting in plays or musicals, performing in a dance group, taking lessons in either, or providing behind the scene support.	35.8	22.5	18.9	8.8	14.2
2.	Writing novels, stories, plays, or poetry, or taking classes in writing.					
7.	Visiting painting, graphic arts, photography or sculpture exhibits.	31.6	32.7	13.1	13.5	9.1
8.	Visiting craft exhibits.	22.1	44.5	18.6	6.4	8.4
9.	Touring buildings, etc. for design or historic value or visiting history, science or technical museums.	23.2	35.7	13.6	18.0	9.4
20.	Listening on radio or watching on TV classical music, opera, or dancing.	13.3	41.7	25.0	12.1	8.0
23.	Watching performances of jazz on TV or listening on the radio.	20.8	37.3	16.8	9.6	15.4
29.	Listening to radio broadcasts, your own recordings or watching TV productions of plays or poetry.	19.6	34.2	22.0	11.2	13.0
3.	Taking classes or attending lectures on art history, literature, etc., or belonging to a literature club.	39.0	14.6	14.9	16.3	15.1

* Activities not included on this list were assumed to be universally available. Respondents were not asked to respond to the question of availability for these activities.

TABLE H Continued

		Never Available	Available Occasionally	Available Regularly	Always Available	Don't Know If It Was Available
4.	Watching regular TV programs day and night except sports and news.					
21.	Listening to radio broadcasts of all other music.					
22.	Listening to recordings.	11.1	25.1	19.6	41.8	2.4
15.	Going to rock or country and western or rhythm and blues concerts.	24.2	39.8	22.1	9.0	4.8
19.	Going to fairs and carnivals.	5.7	57.2	31.2	4.0	2.0
28.	Going to the movies.	6.7	24.6	16.8	51.6	0.3
6.	Watching sports on TV or listening on radio.	8.8	22.0	33.6	34.2	1.4
32.	Going to watch sports in person.	12.2	29.8	37.3	18.4	2.3
35.	Playing competitive sports.					
37.	Jogging, weight lifting or other exercise program.	15.8	17.4	19.3	39.8	7.7
33.	Camping, hiking, back-packing, hunting, fishing, etc.					
40.	Picnicing, visits to parks, zoos, nature walks, or driving a car for pleasure.					
42.	Playing with your children.					
36.	Playing indoor activities or games with friends and/or family.					
41.	Visiting with friends or family members, writing letters, talking to friends on the phone, etc.					
34.	Going to church or doing other church-related activities.	3.1	10.3	26.5	59.6	0.5
44.	Playing with pets.					
1.	Reading (fiction books, periodicals, and nonfiction).					
5.	Watching news and information programs on TV or reading in newspapers and news/magazines.					
43.	Do-it-yourself activities or hobbies.					
45.	Sitting and thinking—day-dreaming.					
38.	Charity, volunteer, social service, or political organization activities.					
39.	Fraternal organization or club activities.					

APPENDIX I

Occupation Categories

General Code	Specific Code	Job Categories
White Collar (Professional)	01	Engineers - includes technical fields and sales and sales engineers
	01	Physicians, dentists, etc. practitioners
	02	Health workers (not practitioners) - dietitians, RN's, therapists, clinical lab technologists, dental hygenists, etc.
	03	Teachers (not administrators, not college)
	02	Technicians except health - agriculture, biological, chemical, electronic, industrial, mathematical and mechanical engineering technicians, draftsmen, surveyors, airplane pilots, embalmers, flight engineers, radio operators, tool programmers
	04	Other professional workers - accountants, architects, programmers (all types), farm management advisors, foresters, conservationists, judges, lawyers, statisticians, various "scientists", personnel and labor relations specialists, all social scientists all other teachers, actors, athletes, authors, dancers, editors, reporters, musicians, artists, public relations men, radio and TV announcers, reserach workers
	11	Managers and Administrators (except farms) - assessors, controllers, treasurers, local public administrators, bank officers, wholesale and retail buyers, credit men, funeral directors, inspectors, building managers and superintendents, ships officers, officials of organizations, postmasters, business managers (all types, retail trade department heads, school administrators
	12	Military officers and E6 and above
White Collar (Sales and Clerical)	20	Sales Workers - advertising agents, sales persons, auctioneers, insurance agents (all types), real estate agents, sales clerks, etc.

General Code	Specific Code	Job Categories
	30	Clerical and kindred workers - bookkeepers, secretaries, coders, cashiers, bill and account collectors, vehicle dispatchers, interviewers, expediters and production controllers, file clerks, insurance adjustors, examiners library attendants, mail carriers, messengers meter readers, operators of keypunch and other office machines, computer operators, various clerks, real estate appraisers, receptionists, stock clerks and storekeepers, telephone operators
Blue Collar	40	Craftsmen, foremen, and kindred workers (including apprentices) - auto mechanics and body repairmen, other mechanics and repairmen, machinists, metal craftsmen, carpenters, construction craftsmen, other craftsmen
	51	Operatives (except transport) - asbestos and insulation workers, blaster, bottling and canning operatives redmen and exmen, checkers and inspectors in manufacturing, dress makers, earth driller, drywall installers, gas station attendents, graders and packers, meat cutters, miners, painters, drill press and other industrial equipment operatives, riveters, sailors, firemen, weavers, welders
	52	Transport equipment operators - truck drivers, bus drivers, conductors, deliverymen, forklift and two motor operatives, parking attendants, taxi drivers
	53	Lower grade military
	60	Laborers (except farm) - construction, freight, stock, material handlers (garbage collectors longshoremen); animal caretakers; lumbermen, gardeners, vehicle washers
Farm Workers	71	Farmers and farm managers
	72	Farm laborers and farm foremen
Service Workers	80	Cleaning - maids, janitors, cleaners

General Code	Specific Code	Job Categories
	80	Food - bartenders, busboys, cooks, dishwashers, food counter and fountain workers, waiters
	80	Health - nursing and other health sides, health trainees, orderlies and attendants, practical nurses, dental assistants, lay midwives
	80	Personal service - airline stewardesses, recreation attendants, barbers, bellhops, elevator operators, childcare workers, hairdressers, housekeepers, school monitors, ushers
	80	Protective service workers - firemen, policemen and detectives, guards and watchmen, crosssing guards, bridge tenders, marshalls and constables, sheriffs and bailiffs
	91	Private household workers - childcare workers, cooks, housekeepers, laundresses, maids and servants
Housewives	92	
Retired	93	No job listed
Students	94	

APPENDIX J

Cross Tabulation of Current Participation Clusters and Desire for Increased Participation Clusters

TABLE J-1

Predicting Desired Increases from Current Participation

Current Participation Clusters	Desired Participation Clusters 1	2	3	4	5	6	7	8	9	10	Total
1	35.6	4.9	8.4	4.7	4.7	7.9	13.8	1.9	6.2	11.9	100.0
2	19.6	34.8		6.5	4.3	17.4	2.2	4.3	6.5	4.3	100.0
3	15.8	10.5	5.3	21.4	26.3		5.3		10.5	5.3	100.0
4	34.4	4.6	8.2	2.6	6.2	5.6	12.8	5.6	8.7	11.3	100.0
5	22.2	16.7	11.1	11.1	5.6	11.1		11.1		11.1	100.0
6	18.5	5.6	13.0	14.8	9.3	1.9	7.4	1.9	5.6	22.2	100.0
7	15.7	13.3	2.4	7.2	7.2	24.1	10.8	3.6	12.0	3.6	100.0
8	9.8		21.6	17.6	5.9	15.7	3.9	2.0	9.8	13.7	100.0
9	25.0	7.0	9.0	8.0	4.0	4.0	16.0	4.0	12.0	11.0	100.0
10	23.5	3.0	12.7	3.7	6.3	13.8	19.4	4.1	7.1	6.3	100.0

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TABLE J-2

Predicting Current Participation from Desired Increases

Current Participation Clusters	Desired Participation Clusters 1	2	3	4	5	6	7	8	9	10
1	60.4	41.6	46.4	42.1	42.1	42.4	51.5	31.4	42.7	56.7
2	1.8	15.8		3.2	2.1	5.1	0.4	3.9	2.4	1.1
3	0.6	2.8	0.7	0.2	5.3		0.4		1.6	0.6
4	13.3	8.9	10.5	5.3	12.6	7.0	11.0	21.6	13.7	12.4
5	0.8	3.0	1.3	2.1	1.1	1.3		3.9		1.1
6	2.0	3.0	4.6	8.4	5.3	0.6	1.8	2.0	2.4	6.7
7	2.6	10.9	1.3	6.3	6.3	12.7	4.0	5.9	8.1	1.7
8	1.0		7.2	9.5	3.2	5.1	0.9	2.0	4.0	3.9
9	5.0	6.9	5.9	8.4	4.2	2.5	7.0	7.8	9.7	6.2
10	12.5	7.9	22.2	10.5	17.9	23.4	22.9	21.6	15.3	9.6
Total	100	100	100	100	100	100	100	100	100	100

APPENDIX K

Socio-Economic Status and Demographic Variables by Most Important Barriers to Increased Participation

TABLE K-1

Reasons For Not Increasing Participation by Sex

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO SYMPHONIES													
male	12.1	11.8	4.7	3.3	2.9	0.4	3.1	9.7	27.2	21.2		0.5	3.2
female	24.5	13.6	2.8	4.0	1.2	0.2	0.1	13.0	11.2	18.6	4.7	0.4	3.6
GOING TO OPERA													
male	10.9	11.3	6.2	1.5	6.1	3.2		11.7	19.9	23.6		0.3	1.9
female	21.8	14.2	4.0	1.1	2.4	1.2		10.8	8.7	27.0	3.1	0.2	2.8
GOING TO CHORAL CONCERTS													
male	12.5	5.5	4.0	6.7	1.7	3.2	2.3	6.3	31.6	15.7	3.4	0.4	6.6
female	17.6	19.4	2.8	3.2	1.5	3.6	2.0	4.3	23.7	9.8	2.6	4.1	3.7
SINGING IN A GROUP													
male	13.4	7.3	0.7	3.0	4.2		0.6		51.9	9.6	2.4		7.5
female	14.9	6.0	0.8	3.5	1.6		1.3	1.4	37.9	8.6	4.3	8.3	6.8
GOING TO JAZZ CONCERTS													
male	12.3	11.9	4.8	0.4	4.5	1.2	1.4	15.2	9.1	30.0	0.2	0.7	8.1
female	17.1	13.3	1.0	0.3	2.9	10.2		12.2	12.0	28.0	0.3	0.2	
GOING TO FOLK CONCERTS													
male	10.9	11.8	3.6	1.3	3.2	5.3	0.4	7.7	26.2	25.0		0.5	4.2
female	13.7	20.5	1.0	0.7	1.4	10.1	1.1	10.9	11.7	21.6	2.1	1.2	2.7
PLAYING AN INSTRUMENT													
male	7.1	2.0	2.5		2.7	1.2	0.9	19.4	48.1	2.4	2.5	0.1	10.9
female	4.4	4.7	0.1		1.3			33.1	35.3	2.4	3.7	3.8	9.7
DOING ART WORK													
male	5.5	3.8			2.7	0.2	0.2	32.7	38.6	5.5	1.3	0.7	8.5
female	3.7	7.5	1.3		4.5		0.4	14.6	44.0	7.4	3.8	6.5	5.8
DOING CRAFTS													
male	3.9	2.7			4.4		1.3	22.8	45.9	7.1	3.8	1.2	6.3
female	4.7	7.0	0.9	0.3	1.9	0.3	0.1	17.5	42.7	5.2	2.5	12.7	6.9

TABLE K-1 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
TAKING ART CLASSES													
male	3.8	9.9		0.2	5.5	1.0	4.1	16.3	36.7	12.4	0.2	0.2	7.4
female	3.0	10.8	1.7		1.6	0.4	0.7	29.9	25.6	7.7	3.2	11.2	3.5
GOING TO A BALLET													
male	14.2	3.4	3.4		3.8	0.7	2.0	9.2	23.7	29.3		4.2	3.1
female	24.9	13.6	5.4	0.1				9.6	31.9	21.9	0.9	1.4	1.2
GOING TO A FOLK DANCE PERFORMANCE													
male	12.6	9.3	1.0	0.3	4.0	0.7		9.0	21.3	39.7		1.1	0.9
female	18.7	9.8	0.9		0.2	1.4	0.6	13.0	14.2	33.8	1.1	2.5	1.8
GOING TO THE THEATER													
male	6.6	15.6	5.3	2.1	4.4	0.6	2.5	19.3	21.9	15.8	1.0	1.7	2.3
female	16.9	12.6	6.0	2.4	1.0	1.4	1.4	23.2	10.8	17.0	2.5	2.9	0.8
ACTING IN PLAYS OR BEHIND THE SCENES													
male	8.1	8.4	3.8		5.0			8.9	44.7	11.7	0.3		6.9
female	10.5	7.7	1.3		1.9	0.7		4.2	29.3	17.8	6.3	7.2	10.2
WRITING FICTION													
male	17.5	6.1			1.8		0.4	5.3	53.5	2.1	1.1	0.2	12.0
female	3.6	6.3	1.1		0.2			7.3	56.9	7.4	3.6	6.1	6.4
VISITING ART EXHIBITS													
male	7.9	15.6	2.0	0.2	4.6	0.5	4.2	2.2	30.1	22.6	0.9	1.9	7.6
female	16.7	20.4	1.8	0.6	1.9	1.1	0.3	1.2	22.3	22.9	2.7	5.6	2.1
VISITING CRAFT EXHIBITS													
male	5.0	12.6		0.5	5.8	2.8	3.3	2.5	39.3	21.6	1.3	0.5	4.7
female	15.5	18.8	1.3	1.2	1.9	5.1		3.9	24.2	18.9	2.6	3.8	2.0

TABLE K-1 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
TOURING BUILDINGS													
male	6.4	13.7	1.4	2.1	4.4	0.8	1.2	8.5	30.5	22.3	2.6	2.0	4.1
female	14.8	16.6	1.0	0.3	0.3	2.0		4.7	24.8	26.0	4.0	3.1	4.0
RADIO OR TV OPERA, CLASSICAL MUSIC, OR DANCING													
male	23.8	3.6	5.5		2.0		5.4	2.0	41.3	7.8	1.5	2.4	4.9
female	18.5		0.1		1.3		4.2	1.2	42.9	16.5	1.0	5.5	4.9
RADIO OR TV JAZZ													
male	15.4	0.7	1.3		2.0		7.9		40.9	22.1		1.9	7.7
female	22.2	0.6	5.5				0.8		51.1	17.4	2.4	6.2	1.9
RADIO OR TV PLAYS													
male	13.4	0.2	3.1		2.0		4.6	3.2	40.0	15.7			7.8
female	27.1	2.4	3.2		1.3	0.2	3.9	0.9	35.6	13.5	1.0	4.3	4.3
TAKING CLASSES IN ART HISTORY OR LITERATURE													
male	6.9	14.0	2.7	1.0	1.6		1.5	9.9	50.5	8.3	1.3	0.3	1.7
female	10.6	20.2	0.9	0.2	0.5		1.7	6.1	28.5	15.9	3.3	8.3	2.7
WATCHING TV													
male	4.2	2.3	8.0				34.4		35.8	2.9	1.4	6.0	3.6
female	9.0	1.5	4.1	0.8			19.9		46.7	1.9	1.5	8.9	1.5
RADIO POP MUSIC													
male	9.2	2.9	3.4		1.1		9.7		62.0	2.7	0.8	2.6	4.7
female	10.7	1.8	1.4	0.2	1.0		7.4		59.9	2.6	1.3	7.3	4.6
LISTENING TO RECORDS													
male	8.9	0.2	1.8		1.1	0.1	0.1	19.6	56.3	0.4		4.5	6.4
female	10.9	2.4	2.2	0.2			0.4	12.9	56.4	1.3	0.9	6.7	4.2

TABLE K-1 Continued	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO POP CONCERTS													
male	5.8	10.6	1.4	2.3	6.2	14.8	2.4	23.8	12.6	17.0		0.4	2.6
female	13.5	19.2	2.1	0.7	1.5	10.5	0.6	23.4	8.6	12.9	0.9	3.9	1.1
GOING TO FAIRS													
male	5.0	10.0	0.5		5.1	16.5	1.5	21.9	18.6	16.1	1.0	1.3	1.6
female	4.7	12.1	1.2		4.5	15.3		22.7	12.9	19.4	1.8	1.1	3.1
GOING TO MOVIES													
male	6.2	2.7	4.7	2.5	3.8	2.0	8.3	37.2	22.9	3.1	0.5	2.9	3.3
female	10.2	6.9	2.9	1.6	2.1	3.3	7.9	35.3	12.9	3.2	0.6	8.8	3.1
WATCHING SPORTS ON TV													
male	22.1	0.7	1.9		1.2	0.2	0.4	3.4	57.6	6.1		4.7	1.5
female	12.4	1.0		1.1		2.1	2.0	2.3	61.3	2.9	0.4	7.2	2.1
GOING TO WATCH SPORTS													
male	8.4	10.8	1.8	0.7	2.1	10.2	0.5	29.7	20.3	11.1	1.5	1.1	2.0
female	8.4	23.0	1.6	0.7	1.9	10.1		19.8	16.1	6.5	0.6	8.9	3.3
PLAYING COMPETITIVE SPORTS													
male	11.9	4.4	0.8		5.2	0.9	1.4	6.5	43.7	7.1	12.6	0.8	4.8
female	12.8	4.9	1.1		3.1	2.1		3.5	27.2	16.8	5.2	10.0	6.4
EXERCISE PROGRAM													
male	7.4	3.6	0.1	0.3	4.6	1.4	0.8	2.2	57.8	3.5	8.3	0.2	9.6
female	11.2	8.4	0.5	0.1	3.9	0.3	1.5	3.2	46.4	2.5	4.0	8.4	7.9
CAMPING, FISHING, ETC.													
male	13.1	6.2	0.4	0.1	3.8	0.4		15.7	43.2	5.2	4.7	2.6	4.2
female	16.5	11.5	0.2	0.1	2.8	0.8		7.6	34.2	6.0	3.9	9.3	5.7
PICNICKING, PARKS, ETC.													
male	9.8	9.6	0.4	0.4	5.6	2.3		13.2	46.5	4.3	1.3	0.8	5.8
female	15.3	11.4	0.9	0.4	5.3	3.5		6.0	39.6	7.0	3.5	2.6	4.2

TABLE K-1 Continued	1	2	3	4	5	6	7	8	9	10	11	12	13
PLAYING WITH CHILDREN													
male	5.2	5.3	0.7	1.1	1.1			1.4	58.2	7.5	3.1	2.3	10.2
female	4.7	4.1	2.1	0.5	1.2	0.3	0.1		70.5	0.7	2.6	1.9	4.3
PLAYING INDOOR GAMES													
male	22.3	3.5	1.2	0.8	3.3	2.3	0.6	3.4	49.0	3.0	1.6	2.4	6.8
female	30.0	3.6	0.1	1.2	3.1	0.1	0.3	2.1	45.0	4.4	1.5	5.4	2.4
FAMILY & FRIEND VISITS													
male	5.3	15.3	1.1	1.4		0.8		10.0	52.4	1.6	2.3	1.5	8.3
female	6.9	11.5	1.2	2.7				7.2	56.7	2.9	1.1	4.7	5.0
CHURCH & CHURCH ACTIVITIES													
male	8.3	5.3	0.5	14.9	1.0	1.1	3.9		44.5	2.7	4.5	3.2	10.2
female	20.9	8.6	1.8	6.5	0.8	0.7	3.1	0.6	36.1	0.5	3.7	6.8	7.6
PLAYING WITH PETS													
male	5.7	3.2			2.5			4.8	57.8	3.8	8.6	3.0	9.1
female	3.7	5.4	0.2					3.5	73.2		0.7	2.0	8.1
READING													
male	6.2	1.8						4.6	73.9	0.8	3.0	3.2	7.6
female	4.7	1.1			0.7			3.4	67.6	0.8	1.3	15.5	4.3
WATCHING NEWS OR READING NEWSPAPERS													
male	9.8	2.2	2.9		0.8		4.8	1.0	60.5	7.5	1.7	3.4	4.5
female	12.6	2.7	2.3	1.2	0.3		4.7	0.2	45.1	1.1	0.8	13.6	4.3
DO-IT-YOURSELF ACTIVITIES													
male	2.5	1.4			3.5			23.3	53.1	0.8	6.1	0.7	8.0
female	3.3	1.4	1.1		0.2			25.1	54.5	1.5	2.5	6.9	3.1

TABLE K-1 Continued	1	2	3	4	5	6	7	8	9	10	11	12	13
THINKING & DAY-DREAMING													
male	4.6	1.9			0.9	0.9		0.4	70.7	0.5		10.8	8.4
female	1.3	0.2	2.4			3.1			71.0	0.3		7.1	8.7
VOLUNTEER WORK													
male	9.3	2.5	0.4	0.7	1.8	3.0	7.2	2.8	57.2	0.7	1.8	0.6	9.3
female	8.7	10.2	0.8	1.3		1.2	3.4		27.0	4.1	8.1	9.0	5.1
CLUB ACTIVITIES													
male	8.9	6.3		2.5	2.9	2.1	2.8	6.3	47.2	5.4	5.4	0.5	7.3
female	12.5	6.8	2.9	0.8	0.4		2.6	0.3	48.5	5.8	2.1	7.6	4.6

TABLE K-2

Reasons for not Increasing Participation by Age

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO SYMPHONIES													
18-29	17.3	14.7	6.1	3.1	2.6	0.3	0.3	9.9	18.7	24.5	2.0	0.5	
30-39	14.0	16.9	6.2	5.2				19.4	22.4	14.8		1.0	
40-49	43.1	6.6	0.6	1.7		0.6		6.0	13.8	27.1		0.6	
50-64	22.2	11.4			5.2	0.5		14.2	13.4	25.2	7.5		0.5
65+	1.7	20.2	1.7	9.7			12.6	16.0	28.0	1.5	8.6		
GOING TO OPERA													
18-29	15.6	16.1	12.1		0.6	3.8		10.9	11.5	29.4			
30-39	14.8	15.6		4.4	7.0			12.7	25.0	19.4		1.2	
40-49	44.0	2.9	0.7	1.7				4.1	6.5	40.1			
50-64	15.7	15.3		1.2	7.6			16.5	13.0	26.1	4.4		
65+	4.2	19.8	7.7		6.7	5.8		15.7	8.9	28.8	9.4		
GOING TO CHORAL CONCERTS													
18-29	17.3	19.4	6.3	0.6		6.4	3.7	6.7	23.9	12.2		3.4	
30-39	20.9	9.2	2.9	9.1	1.1	2.4		3.8	35.9	7.3		7.4	
40-49	18.1	9.3		8.4	4.2	4.2	4.2	4.7	26.1	20.5		0.4	
50-64	14.0	22.7	3.4	3.2	4.1	0.3	1.3	5.7	26.7	11.7	5.4	1.3	
65+	5.6	14.4		7.8		4.1	2.2	4.5	23.9	9.8	24.6		
SINGING IN A GROUP													
18-29	16.4	11.2	1.9	2.3	4.3		2.5		45.3	11.3	0.6	4.1	
30-39	9.5	3.1		9.3					55.9	15.0		7.2	
40-49	15.9			1.3				0.6	50.0	9.1	8.0	15.1	
50-64	18.4	3.9			6.0				51.6	7.3	9.6	3.4	
65+	14.5	2.7		16.9					47.2		18.6		
GOING TO JAZZ CONCERTS													
18-29	14.9	16.4	2.6		3.1	6.8	0.5	15.8	11.4	28.4		0.1	
30-39	16.2	11.0	0.5	0.9	1.6	13.5		10.8	11.2	33.9		0.5	
40-49	27.6	2.9		2.5	10.1			15.0	3.0	35.1	1.0	2.9	
50-64	16.5	11.3	1.9		9.2		2.1	10.8	10.0	31.7			6.4
65+	3.4	12.7	26.2				5.0	20.5	11.8	20.3			

TABLE K-2 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO FOLK CONCERTS													
18-29	12.4	18.1	3.0	0.5	1.1	9.4		13.5	13.3	26.1	1.8	0.8	
30-39	13.4	14.7	1.9	1.2	1.8	8.1	3.5	11.2	27.4	13.7		3.0	
40-49	28.7	4.8	2.8	3.8	3.7	6.3	1.3	8.4	16.4	23.2		0.6	
50-64	6.2	29.0	1.1		5.9	7.5		1.6	21.7	25.9	1.0		
65+		29.9				4.5		13.2	26.2	22.8	3.5		
PLAYING AN INSTRUMENT													
18-29	4.7	5.5	2.2		2.9	1.2		36.2	44.1	2.3	0.5	0.4	
30-39	3.8	1.5	1.3					30.3	52.9		2.1	6.6	1.6
40-49	11.8				1.3		4.1	23.5	47.5	2.6		9.1	
50-64	13.8	2.4			4.7			20.9	42.3	1.1	14.7		
65+	1.5							12.7	49.8	13.2	22.9		
DOING ART WORK													
18-29	3.0	6.2	2.1		3.0		0.2	25.4	43.9	7.3	1.1	6.3	1.5
30-39	4.1	5.2			2.7	0.2	1.2	17.0	59.3	1.5	1.7	6.4	0.7
40-49	5.9	7.9						20.4	38.1	19.4		8.3	
50-64	9.6	8.3			8.0			20.8	40.4	9.3	3.6		
65+	5.2	3.0			2.4			16.5	38.1	7.0	27.8		
DOING CRAFTS													
18-29	3.0	6.0	1.7		1.1		0.2	18.1	44.6	6.9	0.9	16.5	1.3
30-39	3.8	2.6			2.2	0.6	0.3	23.5	53.2	3.9	1.3	8.6	
40-49	8.8	8.9		1.4	0.5		2.8	23.0	39.1	7.9	0.6	7.1	
50-64	3.3	7.4			4.9			23.4	48.1	6.3	6.6		
65+	6.3	7.3			5.1	1.8		11.9	41.6	5.3	20.7		
TAKING ART CLASSES													
18-29	0.4	11.6	2.6		1.2	0.2	1.4	30.7	28.0	10.8	1.8	10.8	0.5
30-39	4.3	8.2		0.3	0.8			24.6	39.5	12.0		10.3	
40=49	3.0	11.4			2.0		6.2	27.6	32.7	7.3		9.8	
50-64	14.5	14.0			6.7	2.6	2.7	24.6	19.8	5.4	6.1		3.7
65+	1.2	11.8			8.3	3.3	3.3	15.1	35.6	9.7	11.6		

TABLE K-2 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO A BALLET													
18-29	11.4	12.2	9.7	0.2			0.2	10.8	13.1	38.6		3.8	
30-39	34.6	5.1	1.8					5.3	22.7	27.4		3.0	
40-49	34.7	5.8	3.5				3.3	2.2	10.0	39.8		0.6	
50-64	30.8	12.7			8.6	1.6		9.9	10.1	26.3			
65+	24.8	10.2						28.3	7.1	21.2	8.4		
GOING TO A FOLK DANCE PERFORMANCE	15.6	9.1	0.8		0.3	1.9	0.3	11.2	17.3	41.8		1.7	
18-29	9.8	3.3		0.6	2.7	0.9		17.9	25.0	30.4		6.9	2.6
30-39	26.9	10.5	3.3		0.7			5.7	14.9	36.9		1.1	
40-49	16.3	19.1			4.2		1.6	11.7	8.9	36.8	1.6		
50-64	26.2	2.3				5.0		8.9	17.2	36.1	3.9		
65+													
GOING TO THE THEATER													
18-29	13.5	12.8	9.2	1.6	2.8	0.6	1.0	16.5	18.7	20.3	1.0	1.9	
30-39	10.2	16.9	2.2	4.1	0.8	1.3	2.4	25.5	15.5	15.2		5.4	0.4
40-49	23.4	8.8	4.7	1.8	1.0	2.0	2.4	24.2	11.7	13.9	0.3	5.9	
50-64	12.5	9.4	3.7	3.6	5.0		3.4	21.0	15.1	20.8	5.2		0.2
65+	6.6	21.1	7.2					47.2	10.9	2.0	4.9		
ACTING IN PLAYS OR BEHIND THE SCENES	6.6	6.0	3.7		2.7	0.9		8.2	39.5	19.0	4.0	6.3	3.3
18-29	14.2	7.6	2.1					11.2	31.8	23.7		9.5	
30-39	26.1	3.0			5.4			1.3	41.4	21.4		1.3	
40-49	21.5	22.3			10.7				33.7		11.8		
50-64									54.6	24.4	21.0		
65+													
WRITING FICTION													
18-29	11.7	4.9	1.6		0.3		0.3	7.3	64.9	6.1		2.9	
30-39	5.2	4.1						2.0	76.9	0.5		11.3	
40-49	14.7	3.7						17.6	45.9	9.6		8.4	
50-64	13.5	13.2			0.7			9.2	35.7	16.4	11.2		
65+		21.1			8.3			7.6	46.5		16.5		

TABLE K-2 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
VISITING ART EXHIBITS													
18-29	13.3	21.7	3.6	0.1	4.0	0.5	0.9	1.5	23.3	24.8		6.0	0.3
30-39	8.6	19.7		0.3	0.7	3.0	1.4	2.4	29.8	16.8	1.5	5.7	
40-49	15.9	9.8	2.6	1.9		1.2	4.9	0.9	29.1	28.9	0.4	4.4	
50-64	19.7	17.5			6.4			1.5	23.2	25.9	5.9		
65+	22.6	20.2		1.4			9.7	2.0	5.8	23.1	15.2		
VISITING CRAFT EXHIBITS													
18-29	10.2	17.2	2.1	1.2	2.4	5.2			28.7	27.9		4.2	1.0
30-39	14.3	14.9			0.5	5.8		7.7	37.7	9.6	1.3	7.4	0.7
40-49	16.2	19.1	1.5	1.5	2.1	4.2		4.0	26.2	24.4	0.3	0.3	
50-64	17.5	16.9		2.5	5.9	3.6	1.9	8.3	24.5	12.4	6.3		
65+	8.3	24.9				1.0	6.2		24.6	24.0	10.9		
TOURING BUILDINGS													
18-29	9.2	22.7	1.2	0.7	1.5	1.9	1.3	4.9	26.7	27.8		1.7	0.3
30-39	9.2	11.0	0.8	1.0	1.8	0.6		7.4	37.1	20.2	2.1	7.1	1.5
40-49	15.5	14.3	1.4			1.9		12.2	26.1	27.5	0.3	0.7	
50-64	16.9	8.3		3.1	4.2	0.2		4.7	30.0	23.5	5.3	3.7	
65+	4.5	16.0	4.5		3.8			4.5	18.0	25.2	23.4		
RADIO OR TV OPERA, CLASSICAL MUSIC OR DANCING													
18-29	14.4	2.3	3.7		2.3		9.8		52.6	12.4		2.5	
30-39	17.6	2.9	2.9				2.1		46.5	12.1		16.0	
40-49	44.7	1.2	3.9				2.4		29.4	12.5		6.0	
50-64	28.0				4.1		2.2	4.1	39.4	19.1	3.1		
65+	13.4						1.5	8.4	49.8	17.0	5.4		4.6
RADIO OR TV JAZZ													
18-29	16.5	1.3	5.5				5.2		45.4	23.5		2.6	
30-39	26.3		0.8				8.1		27.7	26.3		10.8	
40-49	28.8		1.0						36.6	24.3		9.3	
50-64	21.7				10.3		1.0		59.7	7.4			
65+			9.1				5.4		66.7		18.9		

TABLE K-2 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
RADIO OR TV PLAYS													
18-29	16.7	0.9	7.7			0.4	2.8	1.6	47.1	18.7		2.9	1.4
30-39	25.0						10.0		49.6	7.0		8.3	
40-49	40.5	1.5	1.2				2.1		39.3	12.0		3.2	
50-64	17.9	4.4	0.4		4.4		1.6	4.4	46.5	20.5			
65+	24.3	2.5	1.5		9.0		5.4	5.6	31.9	10.2	5.2		4.5
TAKING CLASSES IN ART HISTORY OR LITERATURE													
18-29	8.4	15.3	3.6		0.7		1.0	7.2	35.7	17.3	0.6	10.3	
30-39	11.1	15.8	0.4				2.5	10.7	49.3	6.0		4.2	
40-49	5.8	9.0		1.2	0.6		2.4	10.3	46.7	17.0		7.1	
50-64	16.0	33.1		2.0				3.9	23.7	14.8	6.5		
65+	1.7	36.8			7.2		6.6	5.2	15.0	10.8	16.6		
WATCHING TV													
18-29	7.5	2.0	6.0				26.7		46.3	2.7		8.8	
30-39	1.1	3.2	8.7				15.4		58.7	6.9		6.1	
40-49	6.1		4.9				27.5		37.0	3.4	4.1	17.0	
50-64	10.2	3.4	7.8	1.8			36.2		36.7			3.9	
65+	5.9		4.6				52.1		26.6		10.8		
RADIO POP MUSIC													
18-29	8.2	2.4	4.4	0.3	0.7		10.6		65.2	3.7		3.1	1.4
30-39	8.0						5.6		71.3	1.5		13.6	
40-49	17.3	3.3			1.4		4.1		62.2	5.3		6.5	
50-64	16.5	2.8	4.3		4.3		7.1		59.7	1.1	3.3	0.9	
65+	10.2	10.2	1.0				20.8		47.6		10.1		
LISTENING TO RECORDS													
18-29	4.5	0.1	4.4		0.2	0.2		26.6	58.9			5.1	
30-39	8.6	2.9	0.8				1.1	8.5	64.5	1.4		11.9	0.2
40-49	17.4		0.3					11.6	60.9			9.8	
50-64	26.3	2.3			2.8		0.3	9.4	57.2	1.1		0.6	
65+	3.0			3.2				16.0	60.8		11.3		5.7

TABLE K-2 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO POP CONCERTS													
18-29	8.1	16.8	1.7	0.6	2.5	15.6	1.6	26.6	8.2	14.5	0.7	3.1	
30-39	9.1	13.3	2.0	2.6	4.4	12.2	1.6	28.4	10.2	13.7		2.4	
40-49	22.1	8.6	4.2	3.9	6.6	10.1	2.4	17.9	11.2	12.6			0.3
50-64	12.3	22.4		0.9	4.8	6.2		8.9	21.8	19.5	0.8	2.3	
65+		35.0		1.9		1.9		16.6	31.2	13.4			
GOING TO FAIRS													
18-29	2.2	12.4	1.2		6.0	16.8	0.4	24.6	14.5	20.2		1.2	0.4
30-39	4.8	4.9	1.8		4.2	13.6	0.4	28.6	17.2	20.6		3.6	0.3
40-49	9.7	10.5			4.7	9.6		21.1	20.2	21.2	2.9		
50-64	9.5	16.6			3.9	17.8	3.4	13.8	22.6	11.7	0.3		0.3
65+	8.6	12.0			3.0	22.3		13.8	8.9	15.1	16.3		
GOING TO MOVIES													
18-29	5.0	3.4	2.1	1.0	3.3	3.0	5.3	43.4	17.2	4.1	0.6	10.8	0.7
30-39	8.8	4.3	6.2	2.3	1.6	2.7	4.7	43.2	14.2	3.9	0.9	7.2	
40-49	16.7	8.3	4.4	2.0	3.7	0.9	12.4	30.0	18.1	2.8		0.6	
50-64	10.4	6.6	3.2	6.2	2.2	3.8	15.9	19.9	29.5	2.1	0.2		
65+	12.6	7.7	10.6		7.4		16.1	33.3	12.3				
WATCHING SPORTS ON TV													
18-29	21.0					0.3	0.8	2.5	67.2	3.5		4.7	
30-39	3.0	2.7					3.7	3.1	68.3	6.1		13.1	
40-49	25.5		3.2				0.7	5.3	50.2	4.0		11.2	
50-64	28.0			2.0	3.8			3.8	54.9	7.5			
65+	15.2	5.0	10.6						65.5	3.6			
GOING TO WATCH SPORTS													
18-29	7.3	18.9	1.7	0.8	1.0	11.2	0.5	23.2	17.2	10.4		6.6	1.2
30-39	8.3	14.2	4.1	0.3	4.1	7.8	0.2	30.3	21.7	7.1		1.5	0.2
40-49	13.0	16.1	0.5	0.8	3.1	7.6		25.5	15.1	13.2	1.7	2.7	0.6
50-64	7.3	14.6	1.0	1.2	2.3	9.0		28.2	25.7	8.6	2.1		
65+	15.7	19.9				14.0		26.9	11.4	5.4	6.7		

TABLE K-2 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
PLAYING COMPETITIVE SPORTS													
18-29	15.5	5.4	0.9		3.1	2.5	1.2	3.8	42.8	15.8	3.8	4.8	0.4
30-39	6.8	2.8	2.1		8.0		0.9	9.4	45.7	6.8	11.0	4.9	2.0
40-49	13.5				4.3			17.3	31.5	3.4	20.9	9.1	
50-64	5.0				12.7				22.8		59.5		
65+	53.9	26.9							19.2				
EXERCISE PROGRAM													
18-29	12.1	8.3	0.8	0.2	4.9	0.9	0.9	3.4	56.6	2.4	1.5	7.8	0.3
30-39	10.4	4.3			5.2	1.3	0.3	3.9	64.1	1.5	3.7	4.1	1.2
40-49	8.3	5.3		1.0	2.9		3.1	4.2	60.0	6.6	8.2	0.5	
50-64	7.0	6.3			3.8				52.4	4.6	25.9		
65+	10.1	1.4				6.5			45.3	9.7	27.0		
CAMPING, FISHING, ETC.													
18-29	14.9	10.0			4.2	0.8		8.9	40.8	8.3	1.6	9.7	0.7
30-39	12.8	9.0	0.8	0.2	3.6			14.0	48.8	3.7	0.8	5.4	0.8
40-49	17.5	10.2	0.2		2.3	1.8		15.9	34.9	6.5	3.6	7.1	
50-64	19.3	6.3	0.3		3.5			13.3	45.3	2.0	9.8	0.4	
65+	15.2	9.8		0.8	2.2			21.7	21.3	2.3	26.7		
PICNICKING, PARKS, ETC.													
18-29	10.2	12.4	1.3		6.5	3.4		7.9	48.8	7.4	0.8	1.1	0.3
30-39	10.0	8.7	0.9	0.3	5.1	1.5		16.8	45.8	6.0	2.0	2.3	0.8
40-49	15.6	9.3		1.3	6.3	3.7		6.5	49.8	5.7	1.1	0.7	
50-64	20.6	12.1		0.7	4.3	2.4		9.3	38.4	3.0	5.7	3.6	
65+	16.5	14.4		1.1	5.7	6.8		7.9	28.4	4.0	11.2	4.0	
PLAYING WITH CHILDREN													
18-29	1.6	0.8	3.4	1.9	1.9				84.3	2.8		1.2	1.9
30-39	4.6	0.7	1.1		2.4	0.5			87.6		0.6	2.4	
40-49	9.8	7.3	1.4	1.6			0.4		67.8	4.2	6.8	0.6	
50-64	13.1	7.9						1.1	52.1	13.6	8.1	4.1	
65+		42.4						10.6	14.6	14.3		10.6	7.6

TABLE K-2 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
PLAYING INDOOR GAMES													
18-29	24.4	3.6	1.3		5.2	1.0	0.5	3.3	52.4	3.0	1.0	4.4	
30-39	23.4	1.1	0.3	1.5	3.2			4.8	52.2	3.5	2.2	7.5	0.3
40-49	25.7	7.0		0.7		0.5	2.3		54.6	5.2	1.7	2.5	
50-64	45.1	2.1			3.1	2.6		1.1	38.1	5.9	1.8	0.3	
65+	33.2	12.4		11.3		4.7		3.4	31.6		3.4		
FAMILY & FRIEND VISITS													
18-29	5.9	15.7	2.4	1.2		0.9		9.1	56.5	3.1		4.2	1.0
30-39	3.2	8.1	1.2	0.7				8.0	70.6	2.0		6.2	
40-49	5.9	12.8		5.3				7.5	65.1	1.9		1.6	
50-64	6.2	14.8		4.3				9.3	58.0	1.1	6.0	0.4	
65+	17.2	22.6	1.3	1.3				10.7	33.7		8.1	5.2	
CHURCH & CHURCH ACTIVITIES													
18-29	23.1	6.2	3.2	10.0	0.3	0.5	5.4	0.8	43.3	1.0		5.2	1.1
30-39	17.7	2.5	0.8	7.9	1.8	1.3	1.6		57.1		0.2	9.1	
40-49	13.0	12.3		11.0		0.3	4.4	1.1	47.8	0.9	1.3	7.8	
50-64	13.7	6.9	0.3	15.9	1.9	1.4	2.9		41.7	3.1	8.2	4.2	
65+	11.7	12.7	0.9	10.5	1.5	1.7			32.2	3.6	21.4	3.6	
PLAYING WITH PETS													
18-29	2.4	5.6			1.0			4.6	80.3	3.5		2.7	
30-39	9.2								82.0		3.1	5.7	
40-49	13.0	7.1	0.7					7.1	59.2	2.3	7.5	3.0	
50=64	5.4				11.1				60.0		23.4		
65+	4.9	19.4						8.3	28.5		3.9	38.9	
READING													
18-29	7.2	2.4			0.8			4.8	70.3	0.3		14.2	
30-39	3.2	0.8			0.5			0.6	77.8	0.3	0.9	16.0	
40-49	3.6							5.5	81.6	1.3	0.5	7.5	
50-64	7.6	2.2						7.6	76.2	1.6	4.0	0.7	
65+	4.3								76.2	2.8	16.7		

TABLE K-2 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
WATCHING NEWS OR READING NEWSPAPERS													
18-29	14.2	1.4	3.0				4.7	0.5	65.0	2.5		7.7	1.0
30-39	8.5	7.0	2.3		1.0		6.1		55.3	2.7	0.4	15.4	1.2
40-49	17.7						1.5	2.8	51.5	7.6		18.9	
50-64	9.3	2.8	2.7	1.2	2.3		6.2		66.8	4.4	1.9	2.4	
65+	3.1	3.4	6.0	5.0			8.4		51.9	12.2	10.0		
DO-IT-YOURSELF ACTIVITIES													
18-29	2.8	1.4	1.5		1.6			31.4	51.1	0.9		8.4	0.8
30-39	2.7	1.4			0.2			24.8	61.8	0.7	1.2	4.3	2.9
40-49	3.1	2.0			0.9			19.4	69.5	1.4	1.5	2.1	
50-64	4.9	1.7			3.4			20.4	59.6	0.3	9.3	0.4	
65+	1.3		1.3		4.6			18.9	38.0	2.5	33.3		
THINKING & DAY-DREAMING													
18-29	0.9	0.9	3.0		0.3	3.0			80.9	0.9		10.2	
30-39	4.7	4.7							78.9			11.7	
40-49	8.8								90.2			1.0	
50-64	4.8				2.3				78.9			12.9	1.1
65+						9.1			58.6			32.2	
VOLUNTEER WORK													
18-29	8.7	10.6	1.2	0.4		3.5	8.9	2.1	50.3	4.1	1.4	6.6	2.2
30-39	10.9	4.3	0.8	0.9			2.6	0.7	67.8	0.5	2.6	9.0	
40-49	12.2	7.3		5.2	1.0	4.8		1.4	52.5	2.8	3.5	9.3	
50-64	8.0	1.0		0.4	4.0		2.9		68.1	4.9	9.0	1.7	
65+	12.9	6.6							37.7		42.9		
CLUB ACTIVITIES													
18-29	8.1	4.1	4.7	3.4	2.4		1.5	0.5	66.0	2.9		6.4	
30-39	20.3	4.5		2.1			6.6	5.0	48.4	4.6		8.6	
40-49	2.6	14.5		3.8			8.2		52.2	16.2		2.5	
50-64	8.8	5.5			5.5	5.5		12.4	47.0	7.3	8.0		
65+	17.6	17.1							37.6		27.8		

TABLE K-3 Reason for Not Increasing Participation by Number of Children

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO SYMPHONIES													
none	18.9	18.0	3.1	0.7	4.3		1.0	10.4	23.6	14.0	5.8		
one	33.8	8.0	4.7	3.8				12.1	13.2	18.7		0.7	
two	23.3	15.1	3.7	0.6	1 1	0.6	0.7	11.0	15.6	26.7		2.2	
three or more	61.7	4.7				2.1		12.4	10.3	8.7			
GOING TO OPERA													
none	14.8	18.5	2.0	0.8	3.3	5.3		7.2	14.5	30.2	3.3		
one	34.4	10.1	5.4	2.6				15.9	9.2	22.4			
two	25.2	14.3	3.5	1.7	2.6			6.8	21.8	22.5		1.5	
three or more	27.4	15.6	15.6		15.6	2.1		4.1	4.9	14.7			
GOING TO CHORAL CONCERTS													
none	14.1	17.3	2.9	1.4	3.3	3.0	2.8	5.5	27.3	13.8	8.5		
one	12.0	19.4	1.7	6.9	2.7	1.9	3.4	7.6	33.1	11.3			
two	18.7	4.1	4.5	2.7	0.4	8.5	0.3	5.7	29.3	16.0		9.9	
three or more	26.9	11.8	0.7	7.3		6.5		2.6	18.8	16.7		8.7	
SINGING IN A GROUP													
none	13.5	6.1	0.5	5.2	3.4		2.8		58.7	5.3	4.0	0.3	
one	10.2	10.2	2.2	2.1	5.1				35.6	16.5	7.4	10.6	
two	15.7	5.1	1.6	0 9	4.7			0.5	45.0	14.4	1.4	10.6	
three or more	19.7	4.9		6.7					28.2	24.9		15.6	
GOING TO JAZZ CONCERTS													
none	5.7	16.5	2.0		5.6	4.4	1.3	15.6	10.4	36.7			
one	27.0	7.1	2.4	2.4		16.4		8.9	12 3	21.2	0.6	1.7	
two	25.6	3.5	5.9		4.1	7.3		13.8	13.7	24.9		1.2	
three or more	16.2	12.5			5.3	10.4		14.6	11.3	29.9			
GOING TO FOLK CONCERTS													
none	11.9	19.5	2.5	0.2	2.8	7.1		12.7	20.7	20.1	2.4	0.2	
one	22.8	14.0	2.9	3.9	3.3	8.8		11.8	7.0	25.6			
two	11.8	9.6	0.9	1.2	3.3	3.4	1.0	9.8	26.8	28.2		4.0	
three or more	21.3	18.4	4.1	1.5	1.3	13.5	7.7	4.7	14.5	11.5		1.4	

TABLE K-3 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
PLAYING AN INSTRUMENT													
none	7.6	6.8	1.0		4.2			21.6	53.8	0.5	4 5		
one	10.1	4.9	0.8		1.3			36.0	38.3	2.6	1.1	4.9	
two	6.4	2.9	1.0				2.2	50.5	29.4	4.8		1.4	1.4
three or more	2.2	7.6	7.6		1.2			22.1	37.1	1.5		20.6	
DOING ART WORK													
none	4.6	4.9			2.4	0.2	0.2	19.3	57.9	3.8	6.2	0.2	0.4
one	9.7	8.0	2.8		2.3		0.6	17.6	41.0	10.7		7.2	
two	2.2	6.8	2.5		5.2		0.8	18.7	46.2	7.0		10.7	
three or more		12.1			4.3			24.0	30.7	10.9		16.5	1.6
DOING CRAFTS													
none	4.1	7.8			1.7	0.4	0.1	17.4	58.7	2.1	7.4	0.1	0.3
one	4.1	13.7	1.9				0.4	26.6	36.3	4.4		12.5	
two	2.0	3.4	1.7		4.8	0.6		21.6	40.1	3.8		22.0	
three or more	14.2	2.2			2.8			14.4	32.8	8.8		24.7	
TAKING ART CLASSES													
none	3.9	13.3		0.2	3.1	0.9	2.3	28.0	36.2	8.0	2.8		1.4
one	6.7	14.0	3.5		1.1	2.2	0.8	34.8	25.4	5.0		6.6	
two	1.3	7.5	3.0				0.6	30.3	21.5	11.3	0.9	23.7	
three or more	5.6	4.3			4.5		2.3	27.3	19.7	14.9		21.3	
GOING TO A BALLET													
none	18.7	11.9	4.9		3.1		0.3	8.8	13.1	38.0	1.4		
one	40.7	4.1	5.8					8.7	8.1	30.0		2.6	
two	20.7	14.7	5.9	0.5			2.5	9.8	11.0	31.3		3.6	
three or more	30.2	10.5						2.3	13.6	30.5		12.9	
GOING TO A FOLK DANCE PERFORMANCE													
none	13.8	10.0	0.4		2.0	0.9		12.4	19.3	40.0			1.2
one	25.9	11.8	4.6		0.9	2.6	1.0	16.3	3.8	29.6		3.5	
two	18.9	4.3		0.6	3.2	0.4		10.0	17.0	40.1		5.4	
three or more	33.3	1.1				2.4		3.5	23.9	27.4		8.3	

TABLE K-3 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO THE THEATER													
none	10.2	18.9	4.3	3.1	3.1	0.6	2.3	18.5	17.1	18.1	3.8		0.1
one	23.8	6.8	5.6	4.3	1.8	1.1	4.3	15.1	19.5	12.5	0.3	4.9	
two	12.4	15.6	3.3	0.9	2.5	1.4	1.1	28.9	14.5	13.8		5.6	
three or more	17.1	16.1	1.7		4.0			21.2	4.4	23.3		11.3	0.9
ACTING IN PLAYS OR BEHIND THE SCENES													
none	7.2	9.6			3.4			5.0	44.0	20.3	8.3	0.4	1.9
one	27.3	12.0	7.2		3.0			16.1	18.0	10.7		5.7	
two	14.2	8.4			3.0			1.5	31.9	22.3		18.6	
three or more		26.4	21.8			3.5		5.5	13.4	13.0		16.3	
WRITING FICTION													
none	9.0	1.2			0.3			7.7	74.3	3.6	3.8		
one	4.7	13.4	5.7					14.2	49.1	4.0	3.6	5.3	
two	18.8	3.4						6.5	48.5	6.5		16.2	
three or more	14.8	4.9			1.6				50.1	10.0		8.5	10.0
VISITING ART EXHIBITS													
none	17.2	19.1	0.8	0.2	3.3	0.4	1.2	1.6	25.7	25.4	4.9		0.4
one	18.2	17.6	4.5	2.7		2.2		1.8	26.3	22.2	0.4	3.4	0.8
two	8.9	20.2	2.6		6.5	0.7	1.5	1.7	26.9	18.0		13.1	
three or more	5.0	14.8	5.6		1.1	4.4		3.0	31.0	19.1		15.9	
VISITING CRAFT EXHIBITS													
none	11.1	21.4		0.8	1.8	6.3	0.3	1.0	28.4	21.7	5.4		1.2
one	13.6	19.6	3.2	1.2	0.3	7.5	1.5	3.6	27.7	17.0	0.3	3.9	0.5
two	15.8	13.6	2.3	1.2	6.8	0.9		5.1	30.7	15.2		8.1	0.3
three or more	16.3	10.5			0.6	9.2		7.5	31.8	14.7		8.6	0.7
TOURING BUILDINGS													
none	11.1	17.0	0.6	1.6	2.5			4.0	26.5	25.3	7.8	0.9	1.1
one	14.3	19.2	2.8	1.5	2.5	1.5		5.7	25.2	22.9	0.2	4.2	
two	6.6	17.4		0.5	3.8	0.5	0.8	6.1	34.2	25.5		4.4	
three or more	15.0	3.7				0.9		9.6	33.2	26.8		10.2	0.7

TABLE K-3 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
RADIO OR TV OPERA, CLASSICAL MUSIC OR DANCING													
none	20.2	1.4	3.3		2.3		1.1	0.7	48.0	18.9	3.1		1.1
one	34.0		1.6				1.2		53.0	3.6		6.6	
two	19.1		6.1				5.5		42.3	11.3		15.7	
three or more	28.5	1.9	2.1						28.6	20.1		18.9	
RADIO OR TV JAZZ													
none	6.0	0.3	4.1		3.3		1.6		58.7	24.2		1.8	
one	23.0		7.1				10.3		26.4	21.7		11.4	
two	26.1		9.1				11.0		32.9	11.3		9.6	
three or more	56.6								8.2	30.7		4.5	
RADIO OR TV PLAYS													
none	15.1	0.7	3.3		5.0		5.0		50.5	16.2	1.4		2.8
one	36.6	5.7	4.4				2.3	5.7	35.7	7.3		2.3	
two	36.9	2.2	1.2				0.5	3.5	34.6	13.0		8.1	
three or more	41.0					1.5	10.7		20.7	14.9		11.3	
TAKING CLASSES IN ART HISTORY OR LITERATURE													
none	9.6	14.8		1.0	0.3		2.9	9.0	38.4	20.9	3.3		
one	11.1	20.3	3.7	1.0				12.9	29.3	6.7		15.1	
two	8.2	19.5	0.4				2.0	6.0	39.5	14.1	1.2	9.2	
three or more	13.3	5.7	8.0		2.9		1.7		22.1	24.3		14.1	8.0
WATCHING TV													
none	6.6		6.3				41.6		43.0	2.5			
one	10.5	4.7	4.7				29.3		32.0	0.8	3.9	14.0	
two	6.4						24.6		42.3	8.2		18.6	
three or more	4.1	15.4	11.0				10.8		48.9			9.8	
RADIO POP MUSIC													
none	8.5		2.4				10.3		70.2	4.3	1.7	0.4	
one	8.5	5.3	2.4		2.2		2.2		73.0	1.9		6.8	
two	10.1		3.3				6.6		61.6	4.3		11.3	2.8
three or more	17.9	6.0	1.8				2.9		57.9			13.5	

TABLE K-3 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
LISTENING TO RECORDINGS													
none	8.6	1.7	0.1	0.4	1 5			23.1	62 7			1.1	0.7
one	9.9	0.3	2.1					9.6	75.1			3 0	
two	8.3	2.4	3.8				0.3	17.5	49.2	0.9		17.4	0.2
three or more	14.6	0.5	8.8			0.7	2.3	8.8	46.1			18.0	
GOING TO POP CONCERTS													
none	4.8	16.9	0.5	1 1	3.8	15.0	1.4	27 4	13.6	13.9	1.6		
one	14.7	11.6	6.1	2.5	2.8	15.4		21.8	11.4	11.8		1 8	
two	13.2	11 0	2.1	1.2	3.2	16 2	1.5	26.6	10.4	8.4		6.2	
three or more	18.7	18.7	0.8	2.3	2.2	4.4	3.3	24.3	6.7	14.0		4.8	0.4
GOING TO FAIRS													
none	2.0	13.5	0.6		7.0	15.5	2.4	16.1	19.6	19 4	3.3	0 2	0.2
one	7.9	5.8	2.1		2.4	19.4		27.5	15.6	15 2	1.8	2.2	
two	2.1	9.8	1.3		5.7	16.3		35.3	13.8	12.7		2.9	0.3
three or more	5.9				1.8	14.0	0.7	26.6	12.1	20.3		1.0	
GOING TO MOVIES													
none	6.6	5.9	3.7	2.8	4.3	4.1	11.4	38.6	19.1	1.8	1.8		
one	16.1	4.2	3.7	1.5	0.9	2.1	7.4	29.0	23.2	3.0		8.9	
two	7.0	4 2	6.6	0.1	5.0	1.8	4.0	39.0	11.6	1.3		17.9	1.4
three or more	10.5	9.3	0.8	2.4	1.1	1.7	8.2	39.7	11 3	6.0		9.0	
WATCHING SPORTS ON TV													
none	17 2						0.9	2.5	70.3	9.1			1.4
one	31.3							0.9	62.5	2 3			
two	16.5		2.7				2.0	4.5	52.9	6.4			
three or more	9.8	5.4							57.0	2.1			
GOING TO WATCH SPORTS													
none	11.7	14.1	3.0	0.5	1.8	10.1		24 9	22.8	7.2	2.5		1.4
one	8.1	11.8	1.2	0 4	0.2	9.1		25.6	18.1	15.1	1.1	8 5	0.9
two	9.9	15.6	0.2		1.9	11.1		28.4	21.3	7.4		4.1	
three or more	10.3	16.7	0.6	1.3	9 1	10.1	0 6	18.0	9.9	11.5		11.9	

TABLE K-3 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
PLAYING COMPETITIVE SPORTS													
none	10.4	1.0	0.3		10.8	4.4	2.5	4.7	36.5	15.3	12.7		1.3
one	22.3	7.0			4.6	1.3		3.7	35.4	13.6	11.2	1.0	
two	3.8	3.1			1.8		0.9	6.4	51.8	9.3	6.7	15.0	1.2
three or more	12.9	9.7	4.7		3.9			1.8	43.5	3.5	5.8	14.3	
EXERCISE PROGRAM													
none	9.2	6.0			2.5	1.4	1.3	2.7	59.6	3.2	13.3		0.8
one	14.1	8.1	1.9		4.9		0.4		55.7	0.9	6.3	7.7	
two	12.4	5.5	0.3		6.3			3.8	51.6	5.7	1.9	11.9	0.7
three or more	11.0			1.4	7.4			4.6	48.2	3.5	2.6	10.0	
CAMPING, FISHING, ETC.													
none	15.3	7.9	0.1		2.9			13.5	46.4	6.3	6.8	0.2	0.5
one	18.5	12.6		0.3	3.8	0.7		5.7	41.1	5.5	4.4	7.3	
two	14.0	6.3	0.5		3.2	1.2		12.8	37.1	3.6	2.2	18.0	1.4
three or more	14.4	8.5	1.8		5.5	2.4		10.7	40.7	3.4	0.5	12.1	
PICNICKING, PARKS, ETC.													
none	13.3	9.6		0.7	3.6	1.4		8.7	50.7	4.8	5.7	1.0	0.6
one	16.2	16.7	1.3	0.3	6.3	2.6		7.1	41.0	4.2	0.8	3.6	
two	10.0	5.4	1.5		8.9	2.8		14.1	44.0	8.7	0.1	3.9	0.5
three or more	19.0	9.3	1.9	1.0	4.9	5.1		16.1	35.0	6.2		1.4	
PLAYING WITH CHILDREN													
none	9.7	17.6					0.6	4.2	40.7	11.5	4.6	8.1	3.0
one	5.1	4.4	1.7	1.2	2.3				80.6		4.8		
two	4.0	0.2	1.7		1.7				88.3		1.3	1.0	1.7
three or more	6.6	0.7	3.5	3.2	0.9	0.9			76.4		5.0	2.8	
PLAYING INDOOR GAMES													
none	29.8	2.0	0.3	1.7	4.5		0.9	2.1	52.6	2.7	3.0	0.5	
one	39.3	5.5		0.6	0.8	2.8		0.8	42.9	1.9	1.5	4.0	
two	23.4	4.0	0.5		1.6		0.9	1.2	56.4	1.1	1.1	9.6	0.3
three or more	21.7	2.3		3.0	6.6	0.5		3.6	43.1	5.9		12.4	0.8

TABLE K-3 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
FAMILY & FRIEND VISITS													
none	5.9	13.5	0.9	2.7				9.2	60.7	2.0	4.0	1.1	
one	5.8	17.4	1.7	1.9				9.4	60.7			1.3	
two	1.2	9.2	2.1	0.2				5.8	65.6	4.0		10.0	1.9
three or more	10.7	13.0	2.0	7.2		3.3		5.3	48.9	4.6		5.1	
CHURCH & CHURCH ACTIVITIES													
none	15.3	2.1	1.3	11.7	1.9	2.0	6.3		44.0	0.4	13.1	1.9	
one	16.4	13.3	5.0	11.3	0.3	0.8	0.7		41.9	1.1	1.3	7.8	
two	14.3	3.1	0.5	9.9			0.2	1.4	51.7	3.0		13.7	2.1
three or more	25.0	19.7		7.6	2.8		3.5		28.8	1.1	0.6	10.9	
PLAYING WITH PETS													
none	1.4	5.7			2.7			1.2	72.4	3.7	12.9		
one	16.5	11.0	0.6						65.7		4.8	1.4	
two	2.6	5.6							83.9			7.9	
three or more	18.1								65.0		2.9	14.0	
READING													
none	7.1	0.2						6.7	82.1	0.1	2.7	1.0	
one	2.4	2.9			2.2			6.4	72.3		1.6	12.1	
two	5.4	1.3			0.2			4.7	61.8	1.3		25.4	
three or more	6.3	0.9						0.5	62.4			29.9	
WATCH NEWS OR READING NEWSPAPERS													
none	7.5	1.2	0.9	1.2			8.9	0.1	75.3	3.6	1.2		
one	18.3	4.4	2.3				6.4		54.3	2.5		11.9	
two	14.2	0.3	0.8				2.5	0.3	44.8	8.7		25.0	3.3
three or more	16.7	2.5	4.2				5.9		47.9	0.8		22.0	
DO-IT-YOURSELF ACTIVITIES													
none	2.6	0.8			2.6			24.4	57.6	1.1	9.9		1.0
one	2.8	3.3	1.4					29.9	55.6		1.2	5.8	
two	1.8		1.6					30.1	55.5	0.3		9.5	1.2
three or more	0.9	2.7						25.8	56.5	0.5		13.3	

TABLE K-3 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
THINKING & DAY-DREAMING													
none		5.1			2.0	1.6		1.0	83.7			5.8	0.7
one	8.8					8.8			75.1			7.2	
two	1.9		6.4						65.0	1.2		25.5	
three or more	8.4								79.6			12.0	
VOLUNTEER WORK													
none	9.7	4.5		0.2	2.1		5.5		63.4	1.1	13.2	0.4	
one	11.4	6.6	4.1	3.9		4.1	4.5	5.2	47.3	4.1	2.5	4.6	1.7
two	9.8	9.7		0.3	0.6		2.7	1.1	52.8	3.8		15.9	3.2
three or more	7.0	17.2				8.3	5.5	1.5	42.2			18.3	
CLUB ACTIVITIES													
none	0.8	3.5	4.2	3.0	4.2	4.2		1.4	64.0	3.3	11.4		
one	8.0	19.9		4.1	1.7		1.9	11.3	47.7	5.5			
two	23.5	5.7		2.5	2.2		4.7	3.1	39.8	5.1		13.3	
three or more	18.8	6.4					2.1	2.8	43.7	16.2		10.0	

TABLE X-4

Reasons For Not Increasing Participation by Race

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO SYMPHONIES													
black	29.9	14.1		1.3		1.6		4.6	21.8	26.7			
white	20.7	13.7	4.0	3.6	1.3	0.1	1.5	13.6	17.4	20.1	3.4	0.5	0.1
GOING TO OPERA													
black		10.7	20.3	2.3	9.7	1.3		11.3	17.2	27.3			
white	22.2	14.2	3.3	1.3	2.0	0.8		12.5	11.5	29.4	2.5	0.3	
GOING TO CHORAL CONCERTS													
black	11.4	26.9	0.8	8.6	1.8	13.8		8.0	14.3	12.9		1.5	
white	18.2	13.3	4.3	4.0	1.0	1.8	2.9	5.0	30.0	12.2	3.7	3.6	
SINGING IN A GROUP													
black	23.5	14.2	2.3	7.4	5.5				24.0	17.2		6.0	
white	15.3	5.3	0.6	3.2	1.4		1.5	1.3	53.0	7.7	4.5	6.2	
GOING TO JAZZ CONCERTS													
black	14.2	17.3	4.9		2.7	18.4		14.7	6.7	21.1			
white	16.0	12.2	2.7	0.5	3.2	2.8	0.9	13.7	13.0	33.6	0.1	0.6	0.8
GOING TO FOLK CONCERTS													
black	22.2	16.0			3.0	6.8	7.7	8.0	20.8	15.4			
white	11.5	19.1	1.5	1.1	1.0	8.9		10.4	18.4	25.5	1.5	1.2	
PLAYING AN INSTRUMENT													
black	5.9	8.4	8.3		5.9			30.9	21.3	1.6	4.0	10.9	2.9
white	6.6	3.5	0.6		0.9	0.7	0.5	30.3	50.0	2.2	3.2	1.6	
DOING ART WORK													
black	0.7	12.9	8.8		3.9			9.5	35.5	28.2		0.5	
white	4.9	5.9			3.0	0.1	0.4	23.4	47.2	4.8	3.9	5.5	1.0
DOING CRAFTS													
black	5.4	12.9	6.3		2.9			12.8	31.8	17.5	2.4	8.0	
white	4.6	5.5		0.2	2.1	0.3	0.6	21.2	47.9	4.7	3.3	9.6	0.6

TABLE K-4 Continued	1	2	3	4	5	6	7	8	9	10	11	12	13
TAKING ART CLASSES													
black	0.8	16.6	10.3					26.2	17.4	21.3		7.4	
white	4.1	11.4		0.1	2.4	0.8	2.3	27.1	30.5	8.7	2.8	8.9	0.9
GOING TO A BALLET													
black	5.9	15.3		0.9		2.1	4.8	1.8	11.2	49.3		8.8	
white	26.2	9.2	6.2		0.3		0.1	9.9	14.4	31.5	0.6	1.6	
GOING TO FOLK DANCE PERFORMANCE													
black	24.1	14.6						9.7	18.0	32.3		1.4	
white	15.6	8.7	1.0	0.1	0.8	1.1	0.5	12.5	17.8	38.4	0.7	2.3	0.5
GOING TO THEATER													
black	8.5	28.9	5.3	3.6	2.4	3.3		8.4	10.7	26.4		2.6	
white	14.2	11.4	6.2	2.3	1.9	0.5	2.2	24.5	15.6	16.5	2.3	2.2	0.1
ACTING IN PLAYS OR BEHIND THE SCENES													
black	16.7	23.1	16.4		9.5			1.5	19.9	13.0			
white	10.9	7.4	0.3		0.4	0.4		6.6	41.2	19.3	5.7	5.4	2.5
WRITING FICTION													
black	20.6	7.5	4.6		4.0			4.9	38.8	10.8		9.0	
white	5.3	6.9			0.1			8.3	65.4	5.5	3.7	3.6	1.3
VISITING ART EXHIBITS													
black	3.3	27.5	13.2			3.8		2.7	19.9	25.2		4.4	
white	15.1	18.5	0.7	0.5	2.9	0.7	2.2	1.6	26.6	24.1	2.5	4.4	0.3
VISITING CRAFT EXHIBITS													
black	4.2	17.2	8.5		0.7	5.0		6.4	32.9	25.2			
white	14.0	17.4	0.3	1.3	2.6	4.9	1.0	3.4	28.5	19.9	2.7	3.3	0.7
TOURING BUILDINGS													
black	5.1	23.5	3.0	0.4	1.3	3.9		4.6	21.3	30.4	3.9	2.7	
white	12.5	14.5	1.0	1.2	1.8	0.9	0.6	6.8	28.0	25.4	3.6	3.0	2.5

TABLE K-4 Continued	1	2	3	4	5	6	7	8	9	10	11	12	13
RADIO OR TV OPERA, CLASSICAL MUSIC OR DANCING													
black	31.4		4.1				3.9		30.4	20.1		10.1	
white	23.5	1.9	1.2				5.8	2.0	45.7	14.6	1.4	3.3	0.5
RADIO OR TV JAZZ													
black	37.4	1.8	10.0				5.7		11.6	20.0		13.5	
white	16.6	0.4	2.3				4.7		51.1	21.1	1.4	2.3	
RADIO OR TV PLAYS													
black	28.0	9.5	6.4				14.9		26.9	13.3		1.2	
white	23.2	0.8	2.2		1.0		3.5	2.4	46.5	15.7	0.6	3.1	1.1
TAKING CLASSES IN ART HISTORY OR LITERATURE													
black	12.7	32.4	8.0		3.0			3.5	23.3	13.6		3.5	
white	7.7	16.7	0.1	0.7	0.1		2.5	3.1	39.1	14.6	3.4	6.0	1.1
WATCHING TV													
black	4.6	12.0	2.4				19.4		36.3	6.0	6.0	13.3	
white	6.0	0.6	6.8	0.5			31.0		44.7	2.2	0.8	7.5	
RADIO POP MUSIC													
black	18.0	10.7	6.1				8.5		47.9			2.6	6.1
white	10.2	1.7	2.3	0.1	0.6		9.8		65.8	3.0	1.2	5.2	
LISTENING TO RECORDINGS													
black	10.7		11.3					14.7	55.3	1.6		6.4	
white	11.5	1.2	0.6	0.2	0.1		0.3	17.3	60.6	0.9	0.6	6.5	0.3
GOING TO POP CONCERTS													
black	25.2	15.4			2.8	15.7	4.2	19.0	7.6	8.4		1.7	
white	9.4	15.6	2.0	1.7	3.6	11.9	1.3	25.2	10.5	15.8	0.5	2.6	
GOING TO FAIRS													
black	6.4	9.6	2.5		4.1	17.4		28.5	10.9	16.9		3.7	
white	5.2	12.4	0.7		4.1	14.8	0.9	22.8	16.0	20.1	1.8	0.9	0.4

TABLE K-4 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO MOVIES													
black	13.2	5.8	5.1	0.3	2.9	2.9	5.8	31.8	16.6	5.4		7.5	2.9
white	8.3	5.3	3.1	2.4	2.3	2.8	8.9	39.3	17.4	3.2	0.6	6.3	
WATCHING SPORTS ON TV													
black	16.2							6.3	60.6	3.5		13.3	
white	19.0	1.0	1.6	0.5	1.0	1.1	1.3	2.9	62.3	5.8		3.5	
GOING TO WATCH SPORTS													
black	6.9	11.1	0.4		5.6	23.8		13.9	16.6	8.1		13.5	
white	8.9	17.5	1.9	0.8	0.7	8.6	0.1	27.7	20.4	9.9	1.0	1.8	0.7
PLAYING COMPETITIVE SPORTS													
black	16.2	10.4			3.1			2.1	46.2	9.6	2.1	10.3	
white	12.5	4.4	1.2		4.3	1.9	1.1	5.7	39.0	12.7	12.3	4.1	0.8
EXERCISE PROGRAM													
black	12.0	12.2	3.2		4.0	2.3			56.9	1.9		7.5	
white	9.8	6.4		0.3	3.5	0.7	1.6	3.7	58.7	3.5	7.7	3.7	0.5
CAMPING, FISHING, ETC.													
black	10.4	14.2	1.3		4.3			5.3	34.8	16.8	1.5	7.6	3.8
white	16.5	8.7	0.3	0.1	2.3	0.7		12.6	42.9	4.9	4.9	5.9	0.2
PICNICKING, PARKS, ETC.													
black	12.8	16.6	4.7		7.8	1.8		8.7	38.6	4.5	1.8	2.7	
white	13.6	10.7	0.2	0.5	4.9	3.4		10.0	45.8	6.4	2.7	1.5	0.3
PLAYING WITH CHILDREN													
black	10.4		8.1	4.6					62.3		4.6	5.5	4.6
white	4.5	6.4	0.8	0.4	0.9	0.2	0.1	0.9	75.5	5.2	2.7	1.9	0.5
PLAYING INDOOR GAMES													
black	23.3	13.7	0.5	3.0		3.1		0.8	43.6	4.1		6.8	
white	28.8	2.6	0.6	0.9	3.4	1.0	0.6	3.2	49.7	4.0	1.7	3.6	0.1

TABLE K-4 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
FAMILY & FRIEND VISITS													
black	6.2	21.0	6.2			3.3		6.4	44.8	5.0		3.8	3.3
white	7.0	12.9	0.7	2.6				9.6	59.9	2.2	1.9	3.1	0.1
CHURCH & CHURCH ACTIVITY													
black	3.6	29.0	2.7	15.7	2.3			2.0	26.0	4.3	1.5	9.9	3.0
white	19.6	5.0	1.1	9.7	0.3	1.2	4.5	0.2	47.3	1.2	4.9	4.9	
PLAYING WITH PETS													
black	14.4	17.4							48.4			19.7	
white	4.6	2.7	0.1		0.6			5.5	76.9	2.6	5.8	1.2	
READING													
black	18.9	5.8			0.9			4.7	43.4	2.4	3.1	20.8	
white	3.9	1.0			0.4			4.3	78.9	0.5	2.0	9.1	
WATCHING NEWS OR READING NEWSPAPERS													
black	24.9	7.2	4.5				4.0		39.3		4.0	12.1	4.0
white	9.4	2.2	2.7	0.7	0.7		5.3	0.8	63.8	5.3	1.0	7.8	0.2
DO-IT-YOURSELF ACTIVITIES													
black	0.5	7.0	5.8					24.0	48.5	1.3	1.6	7.9	3.3
white	3.5	0.9	0.1		1.6			25.8	57.6	1.3	4.7	3.8	0.6
THINKING & DAY-DREAMING													
black	14.6		12.8						59.9			12.8	
white	2.1	1.5			0.6	2.1		0.3	83.8	0.5		8.9	0.2
VOLUNTEER WORK													
black	9.1	11.8	3.6			4.7	3.7	4.7	43.7	3.5	7.9	0.5	6.7
white	8.9	6.6		1.4		1.6	6.0	0.7	58.8	3.1	5.5	7.4	
CLUB ACTIVITIES													
black	6.2	16.5						4.6	61.1	11.5			
white	10.7	6.0	1.7	2.5	0.9	1.7	3.3	4.4	52.7	5.7	5.3	5.0	

TABLE K-5 Reasons For Not Increasing Participation by Community Size

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO SYMPHONIES													
500,000 +	18.7	13.1	2.1	5.3		0.9	0.4	10.1	29.3	8.7		0.4	7.2
100,000 - 499,999	29.3	8.1	10.2	1.7	4.5		3.6	16.4	13.3	6.8	3.1	1.5	1.4
10,000 - 99,999	16.8	14.5	0.6	6.6	2.7	0.2		11.8	11.2	26.4	5.5		3.5
2,500 - 9,999	4.7	8.9	7.8				4.5	0.9	30.3	35.6			4.8
rural	21.4	19.7		0.8				5.7	12.9	33.8	2.4		0.6
GOING TO OPERA													
500,000 +	33.4	5.5	2.3		3.9	6.9		10.5	19.5	8.0		0.4	5.7
100,000 - 499,999	20.9	6.0	8.9	6.0	2.1			22.8	11.2	21.4		0.7	
10,000 - 99,999	9.6	19.3	4.1	1.1	6.5			5.8	7.1	39.5	4.2		2.8
2,500 - 9,999		14.7						2.5	19.9	56.7			
rural	11.8	18.0	8.2					12.1	13.2	24.8	2.6		
GOING TO CHORAL CONCERTS													
500,000 +	11.1	11.4	0.3	4.6		4.4		5.0	35.9	9.0		6.9	8.5
100,000 - 499,999	20.7	10.2	1.1	4.0	1.0	7.6	2.0	5.7	28.4	5.1	2.8	4.9	5.4
10,000 - 99,999	19.3	11.8	4.4	3.0	3.5	2.6	2.4	4.4	22.7	11.8	6.0	1.6	8.9
2,500 - 9,999	6.1	14.3	0.6	9.5	0.9			6.1	20.3	35.8		1.2	3.6
rural	17.6	20.9	6.9	4.7	1.2	1.7	2.2	5.2	24.5	10.4	2.2	1.2	
SINGING IN A GROUP													
500,000 +	12.3	8.7	1.6		4.4				48.4	0.7		7.4	12.8
100,000 - 499,999	15.0	6.1						0.5	47.1	11.2	5.8	3.5	10.7
10,000 - 99,999	9.0	12.7		3.6	6.5				45.3	11.0	3.7	0.3	5.4
2,500 - 9,999	2.4	3.2		18.5					56.4	5.1	1.3	10.4	
rural	22.0	0.8	1.1	3.5			3.8	2.9	32.4	14.3	5.4	5.7	3.7
GOING TO JAZZ CONCERTS													
500,000 +	13.1	6.4	0.8	0.9	4.0	13.9		22.0	15.8	15.8	0.4	1.5	1.6
100,000 - 499,999	17.3	7.7	4.3		2.6	4.6	1.2	9.8	8.8	33.4		0.4	9.8
10,000 - 99,999	8.3	20.3	3.4	0.5	7.8	3.2	1.6	7.6	12.1	29.8			5.5
2,500 - 9,999	3.0	13.2	4.1		1.2	5.9		25.0	12.8	32.5			
rural	27.8	17.8	1.5					7.7	5.0	37.9			

TABLE K-5 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO FOLK CONCERTS													
500,000 +	15.6	15.4	5.2		2.3	11.7		7.8	19.4	11.9		1.2	6.2
100,000 - 499,999	11.5	12.9	2.2	0.9	2.2	7.4	1.2	8.4	21.0	23.5	2.9	0.5	5.4
10,000 - 99,999	9.3	20.3	1.3	1.0	3.1	5.6	2.2	10.1	16.9	24.8	2.4		3.0
2,500 - 9,999	15.6	0.9	1.4		3.1	12.3		7.3	21.6	32.7		2.9	
rural	10.6	21.7		2.6	0.6	8.9		7.1	12.4	31.7		1.6	0.8
PLAYING AN INSTRUMENT													
500,000 +	1.4	2.8	0.7					27.7	54.7	0.7	0.2	1.7	7.9
100,000 - 499,999	7.0	1.2			1.0			33.0	31.4	0.5	4.2	3.7	18.1
10,000 - 99,999	5.0	4.9	0.9		4.5			27.6	36.9	2.8	4.4	2.0	11.0
2,500 - 9,999	6.6		1.2			7.2		17.2	43.7	0.8	10.2	1.5	9.9
rural	10.4	6.9	3.9				2.2	24.5	37.4	5.1	1.2	1.9	4.8
DOING ART WORK													
500,000 +	4.8	1.4	2.4		2.7	0.2		19.0	50.5	6.2	1.5	5.8	5.3
100,000 - 499,999	3.5	4.0			3.7		0.3	25.8	47.0	3.2	1.3	3.2	7.9
10,000 - 99,999	3.5	4.9	1.3		4.2			18.7	44.1	8.2	4.8	4.1	6.0
2,500 - 9,999	0.7	8.4			6.7		1.5	18.0	24.1	5.7	11.4	8.2	13.9
rural	7.4	11.1			4.4		0.8	20.6	35.3	8.5		5.0	5.7
DOING CRAFTS													
500,000 +	1.6	2.7	2.0		1.0			21.6	47.9	7.4	3.0	6.6	6.3
100,000 - 499,999	4.1	0.3		1.0	2.3	0.6	0.2	26.5	47.9	2.2	1.3	8.2	5.5
10,000 - 99,999	5.4	5.7	1.1		2.7		1.4	17.1	43.0	8.3	4.2	6.2	4.6
2,500 - 9,999	4.4	13.9			3.8		1.1	18.6	38.2	4.0	4.0	9.8	1.3
rural	6.7	8.4			4.1	0.5		12.9	40.8	5.0	2.6	13.9	4.4
TAKING ART CLASSES													
500,000 +	3.4	2.8	2.9	0.3	0.6	0.5		23.5	43.4	3.6		12.2	6.9
100,000 - 499,999	3.9	10.0			1.3	0.9	2.4	32.8	30.7	1.4	2.6	4.7	8.8
10,000 - 99,999	1.8	8.4	1.5		4.2		4.0	22.2	28.6	11.7	5.0	9.5	2.7
2,500 - 9,999	4.3	10.8					1.1	27.7	10.9	28.4		14.0	
rural	4.9	19.3			6.2	1.8		26.1	19.5	13.2		1.0	2.3

TABLE X-5 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO A BALLET													
500,000 +	28.7	7.8	4.7					8.7	20.5	19.8		1.6	4.8
100,000 - 499,999	31.9	7.0	9.0			1.3	0.5	15.3	11.3	19.6		1.6	2.4
10,000 - 99,999	15.9	15.4	5.2		3.6		1.6	8.5	10.7	34.7	1.7	0.7	
2,500 - 9,999		11.4		1.3				5.5		77.2		1.3	
rural	26.4	5.4	3.4					3.9	11.0	35.3		6.9	
GOING TO A FOLK DANCE													
500,000 +	19.2	5.0			0.5	0.4	0.5	10.7	25.0	26.0		4.8	4.5
100,000 - 499,999	27.6	7.6	1.0		2.9	3.1	1.8	7.7	17.5	25.2	1.6	1.0	2.3
10,000 - 99,999	12.6	12.7	2.3		2.7			11.3	16.0	40.0	1.1	1.1	0.3
2,500 - 9,999	7.5	6.8		1.4	1.5			9.3	9.6	59.1		2.1	
rural	16.8	13.2				2.7		15.4	9.6	39.2		1.3	
GOING TO THE THEATER													
500,000 +	18.4	12.9	5.3	4.3		0.4	2.6	23.9	22.9	2.7	0.2	4.3	0.6
100,000 - 499,999	13.7	10.6	5.0	1.0	3.8	1.4	4.0	31.0	16.2	9.4	0.7	0.6	2.6
10,000 - 99,999	11.5	12.2	8.4	0.9	4.2	1.5	0.6	15.8	12.3	22.6	5.8	2.3	1.9
2,500 - 9,999	5.0	20.8	2.5	3.4		1.9	1.1	17.4	6.7	37.8		1.4	0.9
rural	12.4	18.7	5.3	2.1	2.0	0.8	0.7	14.6	14.8	22.0		3.2	0.3
ACTING IN PLAYS OR BEHIND THE SCENES													
500,000 +	6.3	2.3			2.0			10.8	52.8	5.1	3.9	4.1	7.9
100,000 - 499,999	8.7	10.3			7.3	0.9		4.5	37.0	3.0	6.2	1.1	17.7
10,000 - 99,999	10.7	8.8	5.0		4.3			5.6	29.7	13.5	7.5	9.4	5.5
2,500 - 9,999	5.0	3.4							37.6	46.2			2.3
rural	13.0	12.8	4.7					4.7	21.9	30.3			2.1
WRITING FICTION													
500,000 +	6.4	2.4						12.5	67.1			3.2	8.4
100,000 - 499,999	5.8	7.3			0.9		0.8	3.2	59.6	1.3	2.9	3.4	14.7
10,000 - 99,999	10.3	8.5	2.0		0.3			9.4	49.5	9.2	2.1	3.0	5.8
2,500 - 9,999	6.6	10.0							64.6	2.2	10.0	2.0	2.1
rural	12.4	3.9			3.3			0.7	44.5	10.2	2.4	8.0	12.1

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TABLE K-5 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
VISITING ART EXHIBITS													
500,000 +	11.1	15.8	2.3	0.5	1.4	1.4	0.9	0.7	41.0	13.7	1.4	6.6	3.3
100,000 - 499,999	27.1	13.4	1.4	1.3	1.5	0.4	4.6	1.5	27.6	9.5	0.5	4.3	6.8
10,000 - 99,999	11.4	16.9	2.1	0.2	6.8	0.5	1.9	1.2	22.6	26.3	3.7	1.7	4.7
2,500 - 9,999	4.6	17.5			3.3	3.9		1.5	11.8	38.3	5.0	6.7	6.1
rural	12.7	26.1	2.8				0.9	3.7	13.5	34.1		4.9	
VISITING CRAFT EXHIBITS													
500,000 +	13.1	16.1	2.4		2.2	4.6		0.7	38.1	14.3	1.7	3.8	3.0
100,000 - 499,999	19.4	19.3		1.6	2.1	7.0	3.3	2.0	26.8	10.1	2.9	1.1	4.3
10,000 - 99,999	12.9	7.8	2.0	0.5	5.1	1.2	0.4	6.4	28.0	27.2	2.7	2.4	3.4
2,500 - 9,999	5.0	22.0			1.1	4.2		2.7	26.0	26.9	4.7	4.8	1.5
rural	12.0	23.9		2.6	2.2	4.5		4.7	22.0	20.1	0.8	4.8	
TOURING BUILDINGS													
500,000 +	17.2	20.7	0.6	1.2	2.0	0.5		4.5	33.9	10.9	1.4	2.0	3.3
100,000 - 499,999	16.0	13.7	1.0	0.6	1.7	2.4	2.0	6.0	33.2	14.8	4.4	1.8	2.5
10,000 - 99,999	9.2	13.5	3.1	0.5	3.0	1.9		6.0	26.4	25.1	4.1	2.6	4.5
2,500 - 9,999	7.4	16.1		2.5	0.8			5.1	17.9	42.2	3.4	3.6	1.0
rural	8.5	10.1		1.2	1.8	0.2	0.6	7.8	23.6	37.4	3.7	4.3	
RADIO OR TV OPERA, CLASSICAL MUSIC OR DANCING													
500,000 +	27.6	2.0	4.4		3.3		9.2		36.3	6.2		1.6	6.0
100,000 - 499,999	13.6	0.8	2.4				2.7	1.1	49.2	20.4		5.7	4.1
10,000 - 99,999	16.9		2.4		3.1		2.7	4.9	49.6	11.0	4.1	0.6	2.4
2,500 - 9,999	11.6	8.1	1.3						43.3	15.8		9.7	8.1
rural	31.4						7.2		33.2	13.3		9.3	4.4
RADIO OR TV JAZZ													
500,000 +	10.3	0.6	6.0				2.2		47.5	27.8		1.9	3.7
100,000 - 499,999	4.8		1.3				6.8		51.1	30.5		0.5	5.1
10,000 - 99,999	18.9	0.7	2.8		3.6		8.7		41.9	13.7	3.6	2.7	3.4
2,500 - 9,999	5.3		15.0						59.5	14.8			2.5
rural	45.4	1.6							17.1	10.1		14.1	9.2

TABLE K-5

	1	2	3	4	5	6	7	8	9	10	11	12	13
RADIO OR TV PLAYS													
500,000 +	23.9	1.7	6.0				4.5		43.6	7.3		4.9	4.3
100,000 - 499,999	17.3	1.2	5.4			0.7	5.3		44.4	15.7		1.3	8.8
10,000 - 99,999	23.1	3.2	2.4		2.6		4.5	1.9	43.2	7.1	1.5	4.2	6.4
2,500 - 9,999	9.7		1.7		10.8		7.0		51.8	9.4			6.9
rural	26.8						0.7	6.6	25.2	32.1			2.4
TAKING CLASSES IN ART HISTORY OR LITERATURE													
500,000 +	8.5	14.7			0.6		3.5	10.0	50.4	6.6	0.5	3.1	1.9
100,000 - 499,999	9.5	16.0	0.6		1.5		1.8	6.0	38.2	7.2	5.0	6.1	8.0
10,000 - 99,999	8.3	18.0	1.9	0.5			0.7	9.0	38.3	11.9	2.8	8.6	
2,500 - 9,999	4.1	27.9		3.1			3.1	5.3	21.4	22.6	7.5	3.0	
rural	15.7	18.6	4.4		2.9		0.9	3.8	17.5	22.5		6.7	4.8
WATCHING TV													
500,000 +	7.6	2.7	4.9				24.9		42.3	0.6		7.6	0.5
100,000 - 499,999	4.8		5.3				30.2		42.5	3.4		8.2	5.7
10,000 - 99,999	7.3	2.7	8.3				32.6		40.7			2.4	4.1
2,500 - 9,999	5.6						20.1		56.2	1.1	6.5	9.1	
rural	6.3	2.6	7.9	1.4			26.3		35.4	6.2	2.2	8.6	1.9
RADIO POP MUSIC													
500,000 +	10.0		3.1				5.4		71.4	3.8		5.4	0.8
100,000 - 499,999	6.8		1.1				12.7		63.7	3.1		6.7	5.8
10,000 - 99,999	9.4	3.6	0.6	0.4	2.1		9.0		63.9	1.2	3.6	1.8	4.6
2,500 - 9,999			0.8		2.8		11.3		66.9	3.0		4.9	9.0
rural	16.5	5.3	5.3		0.8		6.7		45.6	3.2		6.8	5.1
LISTENING TO RECORDINGS													
500,000 +	7.1	0.5	2.0		0.3		1.0	17.0	60.4			7.9	3.8
100,000 - 499,999	4.6	2.2		0.6				22.9	54.3			7.0	8.5
10,000 - 99,999	7.9	2.9	4.0		1.5	0.2		10.0	61.0	1.5		5.2	4.2
2,500 - 9,999	4.5							14.8	72.6		1.5	3.0	3.8
rural	23.7		2.2				0.2	17.1	40.2	2.2		4.2	5.3

TABLE K-5

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	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO POP CONCERTS													
500,000 +	11.0	7.3	0.7	1.7	7.2	23.8	2.0	22.0	12.1	5.8		3.4	1.1
100,000 - 499,999	6.0	15.1	2.8		3.2	13.9	2.1	34.6	8.1	7.5	0.4	3.8	2.3
10,000 - 99,999	10.6	15.7	2.4	1.9	3.6	7.3	1.3	18.9	14.1	17.6	1.5	1.0	2.7
2,500 - 9,999	9.5	17.4	4.8	3.1	1.7	6.8		12.5	14.5	23.5		1.5	3.5
rural	10.3	21.2	0.3	1.4	2.2	10.2	1.2	24.8	6.4	18.8		2.2	0.2
GOING TO FAIRS													
500,000 +	6.6	7.2			2.4	16.1	2.2	23.8	20.6	16.0		0.7	2.4
100,000 - 499,999	3.8	11.2			6.9	15.9	1.1	24.4	16.6	16.0	0.8	0.3	3.1
10,000 - 99,999	6.2	12.8	3.4		3.0	14.2	0.3	24.4	11.7	19.5		1.9	2.8
2,500 - 9,999	1.4	10.8			11.0	14.9		14.1	20.5	16.9	4.6		4.3
rural	4.7	13.7			4.7	18.1		18.4	12.9	19.1	3.2	2.0	1.0
GOING TO MOVIES													
500,000 +	6.1	2.7	2.4	0.8	1.6	1.2	5.7	43.9	23.2	0.8	0.8	6.3	3.3
100,000 - 499,999	6.1	4.6	6.0	0.9		6.7	9.1	44.1	13.8	0.3	0.2	4.6	3.8
10,000 - 99,999	8.8	1.4	4.7	2.8	5.9	2.7	13.8	32.2	12.7	2.5	1.2	6.0	4.3
2,500 - 9,999	7.1	6.9	1.6	2.1	3.3		8.4	25.8	24.0	7.7		6.6	5.8
rural	12.5	10.6	2.7	3.5	3.4	2.6	4.1	29.0	16.6	6.7		6.9	0.6
WATCHING SPORTS ON TV													
500,000 +	19.1	1.9					1.5	3.2	57.3	4.6		8.4	0.6
100,000 - 499,999	11.8						1.7	0.5	70.9	5.6		4.8	4.8
10,000 - 99,999	21.3		3.0			0.9		8.0	56.0	5.6		0.6	2.3
2,500 - 9,999	5.0	3.7					1.2		69.0	8.6		8.9	0.8
rural	25.7		2.0	1.6	3.0	3.0	1.0	0.5	50.3	2.9		7.6	1.0
GOING TO WATCH SPORTS													
500,000 +	6.3	12.6	1.8			12.3		31.7	20.2	5.1	2.0	2.5	4.1
100,000 - 499,999	8.1	12.0	1.7	1.1	2.7	9.6	0.3	28.6	21.7	8.2	1.1	2.0	2.8
10,000 - 99,999	8.7	16.7	3.0	0.2	3.2	9.8	0.8	26.1	13.3	10.1	1.3	2.6	3.0
2,500 - 9,999	11.1	16.8		0.7	2.7	5.8		20.7	25.3	12.3		2.5	1.3
rural	9.3	21.7	1.1	1.6	1.9	11.1		18.7	17.8	9.7		5.4	1.2

TABLE K-5

	1	2	3	4	5	6	7	8	9	10	11	12	13
PLAYING COMPETITIVE SPORTS													
500,000 +	11.7	4.6	1.6		3.0	0.4	0.4	0.5	41.9	13.5	10.3	2.1	7.7
100,000 - 499,999	13.6	1.9			4.3	3.1		6.6	37.7	16.8	5.7	1.9	8.0
10,000 - 99,999	11.6	4.0	0.3		5.4			6.1	38.3	5.6	12.3	5.3	6.8
2,500 - 9,999	9.4	1.5			1.5		1.9	4.2	54.4	2.5	2.2	15.4	5.2
rural	15.0	10.3	2.3		3.6	3.4	3.3	7.0	23.3	13.2	12.9	4.1	
EXERCISE PROGRAM													
500,000 +	8.9	8.9	0.2		6.5	0.3	1.5	1.5	55.2	0.4	5.4	0.3	10.8
100,000 - 499,999	6.2	3.8			7.2	1.7		2.3	51.5	1.4	4.4	5.5	15.9
10,000 - 99,999	9.0	7.6	1.1	0.3	3.3		1.5	1.3	53.6	1.4	7.4	4.9	8.6
2,500 - 9,999	7.8	5.4			0.4		0.6	6.0	49.0	7.9	4.9	7.0	10.0
rural	14.7	4.0		0.6	1.9	2.2	2.0	5.0	45.9	8.0	7.9	4.3	2.0
CAMPING, FISHING, ETC.													
500,000 +	14.3	5.0	0.7	0.2	1.7			14.4	40.2	6.2	3.8	6.9	5.4
100,000 - 499,999	10.5	13.9			2.3	0.9		9.4	45.9	4.4	2.1	4.1	6.6
10,000 - 99,999	15.8	10.5		0.2	7.1	0.9		17.4	29.1	6.0	2.8	3.5	6.0
2,500 - 9,999	15.8	6.8			1.9	0.5		12.3	47.6	0.7	3.9	7.7	3.7
rural	16.3	8.0	0.7		2.9	0.6		6.0	37.7	7.1	8.5	8.2	1.7
PICNICKING, PARKS, ETC.													
500,000 +	13.1	8.2	2.1	0.4	1.5	2.4		8.8	52.2	3.8	2.0	1.7	3.9
100,000 - 499,999	14.4	6.5		0.4	8.2	2.3		1.9	48.0	6.5	2.3	1.6	7.9
10,000 - 99,999	9.6	9.6	0.9	0.2	10.3	3.2		8.1	40.8	6.0	5.3	1.0	4.9
2,500 - 9,999	7.9	12.1		1.0	4.7	5.3		8.2	38.9	7.3	2.7	2.4	8.8
rural	17.7	16.9		0.4	2.5	1.5		16.4	34.0	5.4	0.2	2.8	1.8
PLAYING WITH CHILDREN													
500,000 +	4.5	5.1	4.5						66.7	2.8	1.8	2.8	11.8
100,000 - 499,999	2.1		1.5		4.0		0.5		67.8	6.5	1.6	1.9	14.0
10,000 - 99,999	3.0	3.4	1.7	1.1				2.2	64.0	5.6	3.6	1.1	14.2
2,500 - 9,999	4.4	6.1				1.5		1.3	63.6	0.5	4.4		17.1
rural	8.7	6.0		1.7	1.7				64.7	2.8	3.1	3.2	8.2

TABLE K-5

	1	2	3	4	5	6	7	8	9	10	11	12	13
PLAYING INDOOR GAMES													
500,000 +	26.2	6.6	1.9		2.4	0.2		1.1	48.6	3.2	1.8	3.9	4.3
100,000 - 499,999	25.6	0.8	0.5	0.6	2.7			3.2	52.4	1.5	0.9	6.1	5.7
10,000 - 99,999	25.0	2.7		1.2	3.2	1.5		6.1	43.5	3.1	1.9	5.9	5.8
2,500 - 9,999	27.8	0.8	0.4	3.2	0.4		2.8	0.9	55.3	0.9	1.0	2.8	3.6
rural	29.3	5.0		1.3	5.7	3.1	0.9	0.9	39.2	8.9	1.6	1.2	1.3
FAMILY & FRIEND VISITS													
500,000 +	8.0	11.1	2.9	3.2				4.4	58.9		1.4	5.4	5.7
100,000 - 499,999	3.7	8.1	1.5					10.2	60.5	2.4	0.8	3.1	9.7
10,000 - 99,999	8.3	11.4	1.1	1.4				8.7	52.1	3.5	3.4	1.9	8.1
2,500 - 9,999	2.0	17.2	0.8	7.0				5.1	57.6	0.3		0.7	9.2
rural	7.0	18.0		2.2		1.3		12.4	48.1	4.0	1.3	2.3	2.7
CHURCH & CHURCH ACTIVITY													
500,000 +	20.5	4.5	0.3	7.0		2.3	4.3		41.5	0.8	1.1	6.2	11.2
100m000 - 499,999	17.1	6.4	2.2	3.9		0.7	5.0	1.6	39.3	1.5	8.5	3.7	9.5
10,000 - 99,999	15.3	7.8	1.6	10.5	1.9	0.9	4.2		43.4		0.5	4.2	9.8
2,500 - 9,999	8.6	8.3	0.8	14.3	2.4				44.8	4.3	4.9	2.0	9.6
rural	13.2	6.9	1.5	13.6	0.5	0.4	3.0	0.5	36.2	1.7	5.9	8.4	5.8
PLAYING WITH PETS													
500,000 +	4.1	4.7	0.4						6.93	3.0	6.5		12.9
100,000 - 499,999	5.0	4.9						5.0	65.0	5.7	2.6	1.6	10.3
10,000 - 99,999	2.9	3.1			5.7			3.6	67.9		3.6	1.2	8.4
2.500 - 9,999	2.1	8.5						8.5	71.3		2.3	0.9	6.4
rural	8.4	3.4						7.0	53.7	1.1	8.0	7.8	5.5
READING													
500,000 +	5.3	2.4			0.1			4.1	75.3		0.3	7.6	4.6
100,000 - 499,999	3.2	0.5						5.0	71.5	1.0	0.8	9.6	8.5
10,000 - 99.999	7.0	2.5						1.7	70.6	1.0	1.2	9.8	6.3
2,500 - 9,999	4.5				1.0			4.2	77.3	0.7	3.6	2.8	5.2
rural	6.3	0.5			1.4			5.9	62.2	1.3	5.5	12.7	2.8

TABLE K-5

K-107

	1	2	3	4	5	6	7	8	9	10	11	12	13
WATCHING NEWS OR READING NEWSPAPERS													
500,000 +	8.2	2.8	3.8				3.1		64.3	0.7		11.6	3.8
100,000 - 499,999	8.1	2.9	0.3				7.9	0.8	60.9	6.0		8.8	4.3
10,000 - 99,999	14.2	3.1	3.8				5.2	1.6	58.1	1.2	1.2	5.2	6.2
2,500 - 9,999	16.7	1.1		4.3			3.9		53.0	6.6	4.3	4.8	4.3
rural	10.7	1.7	3.2	1.0	2.6		4.0		49.9	9.4	2.2	10.5	2.7
DO-IT-YOURSELF ACTIVITIES													
500,000 +	3.0	2.9	1.4		0.3			17.4	60.4	1.4	2.3	4.5	6.4
100,000 - 499,999	2.3	1.9			1.3			25.2	55.0	1.1	1.7	2.4	9.3
10,000 - 99,999	3.7	1.4	0.9		3.3			24.5	51.9	0.7	4.1	3.2	6.3
2,500 - 9,999	0.8		0.8					23.5	50.7	2.4	9.4	8.2	2.5
rural	2.9	0.4			1.9			28.2	51.6	1.2	5.9	4.3	1.7
THINKING & DAY-DREAMING													
500,000 +	4.1	2.2	5.5					1.0	80.2	0.6			6.2
100,000 - 499,999					0.6	7.7			62.4	1.2		10.5	17.6
10,000 - 99,999		2.2			1.1				69.1			16.7	3.6
2,500 - 9,999									96.3				
rural	9.5								60.3			10.3	13.0
VOLUNTEER WORK													
500,000 +	9.0	11.9				0.5	2.2		55.2	5.0	2.7	5.6	8.0
100,000 - 499,999	12.9	4.9		1.8		3.2	9.9		42.8	1.2	8.6	6.6	8.3
10,000 - 99,999	5.2	7.2	2.4	1.9	2.4	2.4	0.8	2.4	57.3	1.0	6.6	3.8	4.8
2,500 - 9,999	1.4	1.1		1.4			5.5	2.0	59.6	1.1	6.9	9.9	9.3
rural	13.4	6.9		0.5	0.6	2.9	6.0	1.6	46.2	4.8	4.2	3.2	5.9
CLUB ACTIVITIES													
500,000 +	2.3	4.6			1.1			0.7	63.7	6.1	2.1	3.3	8.8
100,000 - 499,999	14.1	7.8		0.9			2.6	4.1	55.6	3.3	5.3	0.8	5.4
10,000 - 99,999	11.6	3.1	4.0	2.9	4.0		4.7	5.0	45.2	2.0	4.1	4.2	9.2
2,500 - 9,999	9.5			5.2					71.2		2.1		7.5
rural	13.5	11.6		1.5	1.5	4.2	3.1	5.1	34.2	11.9	4.2	1.2	1.8

TABLE K-6 Reasons for not Increasing Participation by Education

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO SYMPHONIES													
to 8th	30.5						23.6		8.6	23.6	13.6		
8+ not grad HS	49.5	13.7						19.9	3.3	13.7			
grad HS	17.5	6.4	1.2	12.4	3.8			12.5	13.9	27.1	5.3		
some college	23.0	18.4	3.6	0.9	2.9	1.1	1.4	12.3	19.9	14.8	1.2	0.3	0.3
grad 4-yr college	13.9	18.3	11.3	0.8	1.1			2.5	32.4	19.8			
post grad	14.9	20.0	3.6	0.7			0.6	15.7	17.2	20.6	4.6	2.1	
PhD	33.0	26.4	8.2	5.5				5.5	6.6	14.8			
GOING TO OPERA													
to 8th	9.0		18.9						23.8	30.7	17.6		
8+ not grad HS	27.9	27.5	9.0		9.0	5.6			3.0	18.0			
grad HS	10.5	3.2	2.0	3.9	6.3	5.4		27.3	1.1	35.9	4.5		
some college	22.8	17.2	6.1	0.9	4.4	0.5		9.3	14.8	22.5	1.6		
grad 4-yr college	27.1	11.5	7.1					1.5	26.1	26.7			
post grad	11.1	16.1		1.7	1.1			16.7	16.3	35.6		1.5	
PhD	36.8	29.4								33.7			
GOING TO CHORAL CONCERTS													
to 8th	21.6	1.7		11.8			11.8	4.9	11.8	11.8	18.6	6.1	
8+ not grad HS	15.0	15.9	3.9	5.2		10.9	1.8	16.0	9.8	15.7	4.7	1.1	
grad HS	17.4	19.3	3.3	5.6	1.3	2.8	2.9	3.5	28.9	11.5	2.4	1.3	
some college	14.6	15.6	3.7	5.1	3.2	0.3	3.9	34.4	10.6	1.0	5.6		
grad 4-yr college	9.9	16.3	1.9	1.0	2.0	3.2			38.1	19.3		8.3	
post grad	23.8	2.5	9.0	0.8				4.9	39.9	13.0	1.7	4.3	
PhD				48.3						51.7			
SINGING IN A GROUP													
to 8th	36.8								63.2				
8+ not grad HS	23.6	11.2			5.2				35.0	10.4	14.5		
grad HS	15.7	5.6	1.9	8.4			2.4		45.3	11.8	3.2	5.7	
some college	11.1	8.8	0.8		5.2		1.2	0.4	61.8	4.7	0.9	5.0	
grad 4-yr college	8.1	6.9							56.0	12.4		16.5	
post grad	3.6	11.4							77.0		2.3	5.7	
PhD									100.0				

TABLE K-6 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO JAZZ CONCERTS													
to 8th	32.0		22.7						22.7	22.7			
8+ not grad HS	26.0	21.2	12.4					27.1	3.3	9.9			
grad HS	19.6	10.7	0.9		1.4	14.2	0.9	13.6	11.0	24.7		0.9	2.1
some college	11.4	20.0	1.6	1.4	8.1	3.6	0.8	13.2	13.5	26.3		0.3	
grad 4-yr college	8.5	10.6	2.6			5.6		20.4	6.9	45.3			
post grad	10.1	4.4	0.7		8.9	3.9		12.9	12.5	45.4	0.6	0.6	
PhD	25.9							14.0	14.7	45.5			
GOING TO FOLK CONCERTS													
to 8th	33.7	2.3			11.7	2.3			7.7	42.2			
8+ not grad HS		32.5		2.5		10.6		18.9	23.4	10.6	1.4		
grad HS	13.5	15.7	4.2	1.5	1.1	11.5	2.1	17.4	11.0	21.4		0.6	
some college	21.3	20.3	0.9	0.5	4.4	5.9	0.7	4.3	16.1	22.6	1.1	1.9	
grad 4-yr college	8.4	19.6	1.9		1.2	5.7		6.0	29.3	27.8			
post grad	9.2	9.3	2.9	0.6	1.9	11.9		6.1	20.7	30.3	5.9	1.3	
PhD	6.8								77.0	6.8		9.5	
PLAYING AN INSTRUMENT													
to 8th	29.2	7.8	7.8			7.8		7.6	63.2	9.5	10.8	7.8	
8+ not grad HS	3.2	7.8	7.8			7.8		26.5	18.6	9.5	10.8	7.8	
grad HS	6.5	2.5	0.6		1.7		1.3	39.9	38.5	2.9	4.6	1.5	
some college	5.3	5.8	1.5		3.5			26.8	49.5	1.9	4.0	1.7	
grad 4-yr college	5.9	7.6	0.7					27.4	53.2	1.9	0.5	2.9	
post grad	0.9	3.4						23.1	66.6	1.3		1.3	3.3
PhD	6.9							4.9	83.3	4.9			
DOING ART WORK													
to 8th	4.7							48.6	32.6	6.7	1.8	5.6	
8+ not grad HS	2.6	18.2			6.2			23.8	29.5	13.9		4.6	1.2
grad HS	4.7	6.2			4.8		0.6	24.1	43.1	7.6	4.0	3.3	1.4
some college	2.3	5.1	2.0		3.2		0.4	19.4	53.7	6.1	3.5	5.4	
grad 4-yr college	3.9	1.1			1.1		0.5	11.0	65.3		3.6	12.3	1.1
post grad	12.0	7.8				0.6		14.0	51.4	6.9	5.4	1.7	
PhD		8.3			14.0			39.2	33.5			5.0	

TABLE K-6 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
DOING CRAFTS													
to 8th	8.5						16.2	19.5	28.8	22.9	1.8	2.3	
8+ not grad HS	10.5	16.9			2.9	0.8		26.9	16.8	6.2	4.7	14.3	
grad HS	3.5	6.4		0.4	2.4	0.3	0.1	24.2	45.7	6.3	2.3	7.5	0.9
some college	2.8	3.5	1.4		2.9		0.3	16.6	54.2	4.8	3.0	10.6	
grad 4-yr college	3.9	1.5			0.5		0.5	12.4	58.7	1.1	1.2	18.3	1.9
post grad	3.3	1.8						18.6	64.2	5.2	4.6	2.2	
PhD									100.0				
TAKING ART CLASSES													
to 8th	7.2						24.6	10.2	33.5	24.6			
8+ not grad HS	6.4	21.5				1.8		43.4	13.9	9.8	3.1		
grad HS	4.0	13.8			2.2		0.4	31.9	21.9	12.7	2.8	8.1	2.1
some college	1.4	10.7	2.1		4.2	0.5	3.0	27.2	34.0	5.5	0.9	10.4	
grad 4-yr college	6.1	4.7			1.1	2.3	1.8	14.2	51.8	1.0	1.3	15.8	
post grad		9.8		0.7				18.9	45.7	17.8	5.9	1.3	
PhD		33.3							66.7				
GOING TO A BALLET													
to 8th	5.4	25.8						24.9	33.4		10.5		
8+ not grad HS	29.0	18.6						19.9	2.8	21.5		8.3	
grad HS	36.3	6.8	1.9	0.4				4.9	11.3	36.4		2.0	
some college	23.4	14.9	8.0		4.1	0.8	0.3	8.5	4.9	34.4		0.7	
grad 4-yr college	21.7	4.4	5.1					4.7	20.5	42.3		1.4	
post grad	6.9	9.4	7.8				3.3	9.5	26.6	33.0		3.5	
PhD	44.8	21.9	14.3					9.5		9.5			
GOING TO A FOLK DANCE													
PERFORMANCE	40.6	22.2						10.4	26.8				
to 8th	25.8	14.1				2.0		25.7	8.6	23.8			
8+ not grad HS	15.4	6.0	1.3		1.6	1.4	1.0	12.6	12.5	43.8		3.0	1.5
grad HS	18.7	15.9			3.6	2.6	0.5	3.9	16.6	36.4	1.2	0.7	
some college	21.0	3.2	3.7					9.7	19.6	42.9			
grad 4-yr college	7.3	5.7			1.7			10.8	28.9	42.3		3.3	
post grad				15.7					32.6	51.7			
PhD													

TABLE K-6 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO THE THEATER													
to 8th	9.7	12.6	6.0				9.7	33.1	11.6	9.7	5.6	2.0	
8+ not grad HS	11.8	29.9	4.2	3.5	7.4		1.9	12.8	9.7	19.0			
grad HS	15.8	12.0	4.0	2.6	0.3	2.7	1.2	24.9	14.0	17.8	3.3	1.5	
some college	14.0	12.7	6.0	1.6	3.2	0.6	1.1	19.4	14.3	21.4	0.6	5.0	0.2
grad 4-yr college	19.1	15.1	7.4	3.9	4.7	0.8	2.4	14.4	19.6	12.2			0.5
post grad	3.4	11.6	10.5	2.0		0.3	0.8	31.4	20.9	12.8	3.4	2.9	
PhD	11.2	6.8	23.9				18.0	4.9	30.2	4.9			
ACTING IN PLAYS OR BEHIND THE SCENES													
to 8th	23.6				9.8				66.7				
8+ not grad HS	20.4	18.7	9.4			2.4			12.5	18.7	5.8	2.7	9.4
grad HS	10.2	3.5			2.1			14.5	25.8	34.3	8.8	0.7	
some college	6.9	4.0	4.1		5.3	0.9		1.1	45.9	12.1	0.9	15.8	3.1
grad 4-yr college	1.8	7.2	1.4		7.7			10.5	59.9	9.7	0.9	0.9	
post grad	21.3	14.0						6.3	35.4	8.7	12.8	1.4	
PhD									100.0				
WRITING FICTION													
to 8th	11.0								89.0				
8+ not grad HS	13.8	13.8						14.6	40.5	6.9	1.4	2.0	6.9
grad HS	7.8	15.0						8.3	56.3	3.8	2.7	6.2	
some college	7.7	1.2	3.0		0.6			6.7	64.0	3.8	5.3	7.7	
grad 4-yr college	4.2	1.0					1.1	2.8	74.2	12.6	3.4	0.7	
post grad	16.9				1.3			1.3	63.0	16.2		1.3	
PhD									100.0				
VISITING ART EXHIBITS													
to 8th	16.5	7.5					36.3		14.1	15.0	10.5		
8+ not grad HS	22.3	32.9	4.4	0.5	3.3	1.1	1.5	0.9	4.8	27.4	0.9		
grad HS	12.1	18.9	0.8	0.8	4.6	1.8		2.8	21.8	28.6	2.7	5.2	
some college	14.4	18.9	1.4		3.6	0.4	0.5	1.9	33.7	14.4	1.8	8.0	0.8
grad 4-yr college	12.7	19.4		0.5	0.7	0.5	1.5	0.6	40.8	17.9	2.2	3.2	
post grad	16.4	9.7	3.1	0.6	0.9	1.2	0.5	0.5	23.0	41.2	0.5	2.5	
PhD	12.6	17.1			2.9				48.8	14.4		4.1	

TABLE K-6 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
VISITING CRAFT EXHIBITS													
to 8th	4.8	16.2			1.8		16.3	16.3	9.7	34.8			
8+ not grad HS	21.7	28.0		1.7	3.4			9.5	15.3	16.9	0.7	2.3	
grad HS	13.2	17.4	0.5	1.6	2.2	6.7	0.6	4.1	26.3	21.1	2.6	2.9	0.8
some college	12.8	19.4	1.6	0.4	3.3	4.0	0.5		32.4	17.8	3.6	3.4	0.9
grad 4-yr college	11.1	7.4			0.5	6.0		1.3	55.0	13.1	2.8	2 2	0.7
post grad	9.4	17.4		1.5	2.1	4.6		1.8	33.8	25 6	0.6	3.1	
PhD	22.5					9.8			9.8	57.8			
TOURING BUILDINGS													
to 8th	14.2					1.1		28.5	16.6	19.8	15.0	4.9	
8+ not grad HS	10.7	18.4			2.9	1.7		8.4	14.5	41.9	1 6		
grad HS	11.3	14.5	1.5	1.4	1 1	2.7	0.4	4.9	27.8	26 7	3.5	3.8	0 6
some college	12.1	18 7	2.0	0.2	4.2	1.1	1.6	2.3	31.4	21.6	3.0	1.5	0.4
grad 4-yr college	14.1	16.0		3.8	1.0			6.0	39.4	14 7	2.7	1.7	0.6
post grad	9.8	12.9	1.3		2.3			3.9	32.8	29.7	0.5	6.8	
PhD		30.7		4.3					39.8	25.2			
RADIO OR TV OPERA, CLASSICAL MUSIC OR DANCING													
to 8th	25.8								64.9		7.4	1.8	
8+ not grad HS	43.4	6.7					8.9	1 9	32.5	6.7			
grad HS	20.0		4.1				5.3	4 2	40.6	16.7	2.0	5.8	1.3
some college	22.9		0.7		4.3		4.2		47.5	14.4		6.0	
grad 4-yr college	17.0	4.0	0.7		6.8		3.3		51.9	8.9		7.4	
post grad	21.6		5.9				8.4		39.0	22.4		2.6	
PhD		48.8							23.3	27.9			
RADIO OR TV JAZZ													
to 8th	33.6								66.4				
8+ not grad HS	57.1						9.7		33 2				
grad HS	23.8	0.4					4.8		46.6	12.7	3.5	8.4	
some college	3.7	2.3	9.6		4.3		0.4		44 0	31.6		4.0	
grad 4-yr college	4.0		1.3				14.6		30.9	47 8		1 3	
post grad	22.0								55.1	22.9			
PhD							42.5		11.5	46.0			

TABLE K-6 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
RADIO OR TV PLAYS													
to 8th	20.6						18.0		51.0		10.4		
8+ not grad HS	40.4	11.8							45.1			2.7	
grad HS	24.6		4.0				5.9	3.6	35.8	24.0		0.8	1.5
some college	22.4		3.7		6.3	0.5	2.6	0.3	42.6	16.8		3.9	0.8
grad 4-yr college	32.5	1.0	3.2				4.3		41.2	15.4		2.4	
post grad	9.6	1.9					1.9	6.5	63.1	11.5		3.2	2.4
PhD			51.8						35.6	12.6			
TAKING CLASSES IN ART HISTORY OR LITERATURE													
to 8th	10.4	14.7							48.4	12.2	7.2	7.2	
8+ not grad HS	15.2	16.0	7.1	1.4			5.9	8.7	20.6	16.0	2.1		7.1
grad HS	10.4	30.6			0.5		2.1	6.1	22.6	18.3	2.2	7.3	
some college	8.0	9.9	2.6		0.5		0.4	5.1	46.5	11.9	5.7	9.5	
grad 4-yr college	4.2	21.2		2.3	0.6		0.9	13.7	46.9	8.1	0.6	1.7	
post grad	8.7	7.0	0.3				1.6	9.2	49.4	17.2		6.1	
PhD		6.9					6.0	14.5	72.5				
WATCHING TV													
to 8th	2.3	5.9	21.1				9.9		50.9		9.9		
8+ not grad HS	5.4	6.9	6.0				32.8		32.9		2.9	13.2	
grad HS	6.0		4.7	1.0			33.7		44.3	4.0		6.3	
some college	12.9		4.0				21.3		49.7	5.6		6.5	
grad 4-yr college	2.2		12.2				42.5		33.7			9.3	
post grad			2.3				17.3		67.7			12.6	
PhD													
RADIO POP MUSIC													
to 8th	30.0				2.9				63.9	3.2			
8+ not grad HS		4.7	5.2				11.1		70.7			8.4	
grad HS	11.6	2.4	2.9				8.6		63.4	2.0	2.5	5.3	1.4
some college	9.2	2.2	0.5	0.6	4.5		11.7		61.5	2.4		7.3	
grad 4-yr college	9.0	6.1					13.1		71.9				
post grad	12.8						3.6		69.1	9.6		4.9	
PhD									100.0				

TABLE K-6 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
LISTENING TO RECORDINGS													
to 8th	22.5							9.3	65.2				
8+ not grad HS	14.6	4.1	4.1	1.2				9.9	57.9			8.3	
grad HS	13.4	2.2	2.3				0.6	16.0	58.5		1.2	5.2	0.6
some college	5.7	0.6	1.6		2.1		0.2	22.4	59.6			7.8	
grad 4-yr college	5.5	0.4			0.7			17.0	74.2	1.6		0.6	
post grad	6.1							14.1	68.9	3.5		7.0	0.6
PhD								26.5	73.5				
GOING TO POP CONCERTS													
to 8th	11.6	23.4			5.1			16.5	20.7	22.7			
8+ not grad HS	17.7	13.3		2.0	1.7	18.4		23.2	7.2	9.4	0.7	6.3	
grad HS	11.1	17.9	2.4	1.6	2.5	14.2	1.5	26.8	6.2	13.6		2.2	0.1
some college	8.0	15.4	1.8	0.3	7.9	12.3		22.8	12.3	17.2		2.0	
grad 4-yr college	3.7	13.5	4.5	3.0	0.5	8.8	4.8	24.4	25.7	10.1		1.0	
post grad	2.6	5.6	0.8	3.4	9.3	12.9	5.5	23.7	17.2	13.2	5.1	0.7	
PhD		38.4						16.9		14.1		29.6	
GOING TO FAIRS													
to 8th	18.1	9.9			4.1	20.9	9.9	11.9	14.9	10.3			
8+ not grad HS	5.3	13.2	1.6			17.0		34.3	5.9	17.5	5.1		
grad HS	2.9	11.8			3.2	19.7		28.6	12.5	18.9	0.1	2.3	
some college	4.4	9.8	3.4		13.1	12.1	0.4	14.8	21.8	15.2	3.0	0.8	1.2
grad 4-yr college	5.3	11.8			4.9	10.9		18.2	32.3	16.4			
post grad	12.8	8.7			2.1	16.1		1.4	15.0	41.9		2.0	
PhD	31.1								22.0	46.7			
GOING TO MOVIES													
to 8th	13.3	6.0		4.4	0.8	5.9	16.2	28.0	16.8	8.4			
8+ not grad HS	12.8	7.3	6.2		3.9	0.8	4.6	32.5	13.2	7.7		11.2	
grad HS	9.7	5.9	3.4	3.6	3.3	4.0	8.6	37.1	15.2	1.7		6.8	0.8
some college	6.3	4.7	4.6	0.7	3.2	1.2	10.5	39.1	18.1	3.5		8.1	
grad 4-yr college	5.0	4.8	2.0	2.3	0.7	0.9	10.3	40.1	28.2		2.3	3.5	
post grad	8.0	2.8	5.4	0.6	1.2	1.9	3.2	38.0	25.5	6.7	3.4	3.3	
PhD	15.8	4.5	3.2					14.8	57.2			4.5	

TABLE K-6 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
WATCHING SPORTS ON TV													
to 8th	8.4	12.1						20.3	55.7	3.5			
8+ not grad HS	28.0						1.7		55.6	6.1		8.5	
grad HS	19.0		3.1	1 0	1.9		0.9	3.7	61.0	5.3		4.0	
some college	17.3						1.3	1.0	65.4	7.0		8.1	
grad 4-yr college	11.4					1.9			75 2			11.6	
post grad	28.3						2.2	10.2	54.6	4.7			
PhD									100.0				
GOING TO WATCH SPORTS													
to 8th	12.4	21.5			1.4	19.2		26.7	11.6	7.2			
8+ not grad HS	7.9	17.3			0.6	10.3		14.7	26.7	10.1	3.0	6.5	3.0
grad HS	11.4	17.3	1.5	1.0	1.3	10.9		28.8	10.2	7.2	1.2	3.8	0.3
some college	7.0	15.5	0.5	0.7	6.8	10.7	1.0	23.9	21.9	9.4	0.3	2.3	
grad 4-yr college	4.8	18.4	3.1		0.6	3.9		28.6	28.7	6.7	0.7	3.7	0.9
post grad	6.4	12.5	6.5		0.4	5.5	0.6	36.4	11.8	18.1	0.4	1.0	0.4
PhD		4.8	12.6			9.5		13.9	46.6	6.8		5.8	
PLAYING COMPETITIVE SPORTS													
to 8th	32.9		11.5					19.3	33.7	2.7			
8+ not grad HS	20.0	16.1							37.0	3.7	17.1	6.0	
grad HS	13.2	3.2			4.0	1.9		7.0	35.9	16.0	11.9	5.1	1.7
some college	15.8	5.9	0.3		7.8	0.8		6.8	41.0	9.5	5.1	6.9	
grad 4-yr college	5.7	1.7			3.3			3.7	50.4	14.6	19.8	0.7	
post grad	4.3	2.6	4.6		8.3	6.3	2.6	4.0	47.4	7 8	11.5	0.7	
PhD	16.6								83.4				
EXERCISE PROGRAM													
to 8th	16.4						9.0	3.3	41.3	12.7	7.0	10.3	
8+ not grad HS	11.3	11.8			3.6			5.4	41.6	6.4	14.2	5.8	
grad HS	14.9	6.2			5.2	0.5	1.1	3.9	54.0	1.6	5.8	5.7	1.1
some college	9.1	5.8	1.4	0.4	5.8		0.3	2.4	63.5	2.4	2.2	6.7	
grad 4-yr college	9.4	8.0	0.5		3.6			2.5	67.3		7.5	1.2	
post grad	5.5	2.4			1.7	5.4			69.0	2.3	11.8	1.8	
PhD		12.5			4.5				67.7		15.3		

TABLE K-6 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
CAMPING, FISHING, ETC.													
to 8th	11.1	10.1	3.3					22.4	39.4	2.3	8.7	2.7	
8+ not grad HS	22.3	8.4	0.3		7.1			12.0	32.3	5.2	8.1	1.8	2.6
grad HS	19.5	9.1	0.3		1.1	1.3		12.4	37.8	5.2	3.8	9.0	0.4
some college	9.9	9.2		0.2	7.5	0.3		12.3	47.3	3.4	3.5	6.5	
grad 4-yr college	8.4	9.1		0.5	2.2			12.3	52.5	7.4	2.3	5.3	
post grad	21.8	8.2			1.5			10.3	39.8	9.4	5.7	3.4	
PhD	3.7	11.6			4.2			2.5	74.6			3.4	
PICNICKING PARKS ETC.													
to 8th	4.9	12.6	3.7		2.6			25.1	38.4	1.8	3.6	7.2	
8+ not grad HS	28.7	13.4		0.7	1.4	3.9		17.6	29.4	2.3	0.5	2.3	
grad HS	13.7	13.3			5.2	4.8		10.1	42.1	7.1	2.9	0.5	0.7
some college	8.1	7.8	1.1	0.7	8.3	1.9		4.7	55.2	5.4	2.5	4.3	
grad 4-yr college	8.1	6.9		1.3	11.7	0.7		3.6	60.4	4.2	2.2	0.9	
post grad	18.2	12.9			4.1	2.1		3.3	46.5	8.1	4.4	0.4	
PhD		6.3			7.6				64.7		21.4		
PLAYING WITH CHILDREN													
to 8th	20.2	10.1	6.0						23.3	20.2	10.1	10.1	
8+ not grad HS	2.2	13.4		6.7	1.3			4.4	67.0		4.2	0.9	
grad HS	3.5	5.4	0.7		1.4	0.4			78.7	3.8	1.2	2.7	2.3
some college	8.6	2.0	2.1		2.8		0.4	0.7	76.2	3.6	2.2	1.4	
grad 4-yr college	11.4	0.7							77.5	7.4	0.7	2.3	
post grad	1.1	1.1							79.6	3.0	15.2		
PhD									100.0				
PLAYING INDOOR GAMES													
to 8th	22.0	23.7							25.6	15.3		13.5	
8+ not grad HS	32.3	4.9		1.0	0.9		4.3	0.4	43.8	9.3	3.1		
grad HS	29.6	2.6	1.2	1.6	4.4	1.0		3.2	49.0	2.4	0.5	4.5	
some college	29.2	2.4	0.2	0.8	3.3			5.7	51.4	0.4	0.9	5.8	
grad 4-yr college	22.9	2.6	1.0		3.2				60.0	3.1	3.6	3.6	
post grad	20.2				0.5	5.8			56.8	8.3	5.7	2.8	
PhD	46.3							20.0	33.8				

TABLE K-6 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
FAMILY & FRIEND VISITS													
to 8th	3.9	19.5	3.9					23.3	27.0	6.5	3.8	12.1	
8+ not grad HS	13.7	21.6		3.0		2.6		6 2	42.8		5.8	4.3	
grad HS	6.5	14.3		3.8				8.6	61.6	1.9	1.4	0.9	0.9
some college	4.4	10.5	1.9	0.6				9.4	62.3	4.5	0.4	5.8	0.3
grad 4-yr college	5.1	3.1	0.6	0.7				6.8	70.1	2.0		6.6	
post grad	1 3	10.3		0.5				7.2	76.3	3.3		1.3	
PhD		41.6						5.0	53 4				
CHURCH & CHURCH ACTIVITIES													
to 8th	12.0	21.1		12.1			8.8	2 0	19.6	5.5	10.5	8.4	
8+ not grad HS	20.0	24.4		17.5				1.9	26.4		7.0	2.8	
grad HS	18.1	4.0	1.8	11.5	0.8	1.5	1.6		46 8	2.4	4 3	6.1	1.0
some college	16.1	2.9	1.5	8.1	3.0	1.5	3.7		53 4		3.9	5.8	
grad 4-yr college	13.9	5.9	1.0	4.6	0.4		7.0		62.0		0.8	4.3	
post grad	22.8			3 8			4.5		44.0		6.7	18.2	
PhD							29.8		70.2				
PLAYING WITH PETS													
to 8th	37.0							14.3	34.4		14.3		
8+ not grad HS									74.9		17.6	7.4	
grad HS	2.1	3.3						5.0	80.9	1 4	3 5	3.8	
some college	4.9	10.5			3.8			1.6	74.5	3.8	1.0		
grad 4-yr college	10.0	1.4			7 7				59.3	10.7	9.5	1.4	
post grad								8.0	90.5			1.5	
PhD			25.0						75.0				
READING													
to 8th								6.3	65.8	2.9	13 5	11.5	
8+ not grad HS	17.3	3.7						2.9	56.9		3.5	15.8	
grad HS	4 4	0.7			0.7			4.9	77.0	0.7	1 2	10.5	
some college	4.8	1.8						1.8	78 9	0.6	1.8	10.2	
grad 4-yr college	3.7	1.3			0.3			1.0	82.5	0.6	2.7	8 0	
post grad	4.8				1.1			4 0	83.6	0.4	0.3	5.7	
PhD		29.3							70.7				

TABLE K-6 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
WATCHING NEWS OR READING NEWSPAPERS													
to 8th	11.8	5.0	8.3				1.4	8.3	45.7	8.3	8.3	2.9	
8+ not grad HS	20.1	3.0	3.0				10.4		52.6	2.1	3.0	5.9	
grad HS	13.3	1.3	2.7	1.6	1.5		4.1		61.3	6.3	1.1	5.5	1.4
some college	7.2	4.2	1.5				6.3		62.1	1.2		17.3	0.3
grad 4-yr college	3.4		1.5				5.2	1.8	69.2	5.2		13.6	
post grad	11.7						6.5	0.5	70.9	6.2		4.2	
PhD			63.5						36.5				
DO-IT-YOURSELF ACTIVITIES													
to 8th		5.5						53.2	31.0		10.3		
8+ not grad HS	3.5	2.7						35.9	48.4		6.0	3.5	
grad HS	4.2	0.9			1.7			28.0	51.3	1.6	5.3	5.0	2.0
some college	2.5	0.5	1.1		3.1			20.3	63.6	0.8	2.8	5.3	
grad 4-yr college	0.4	2.5			3.5			16.9	68.4		3.6	4.7	
post grad	2.8	0.8						22.0	70.3	0.4	1.7	1.9	
PhD									100.0				
THINKING & DAY-DREAMING													
to 8th	31.9								48.2			20.0	
8+ not grad HS						4.1			83.9			12.0	
grad HS	2.0					3.8			82.2	0.7		11.3	
some college	0.7	4.1			1.6				83.9	0.5		9.2	
grad 4-yr college	2.7							3.3	80.4			11.4	2.3
post grad									100.0				
PhD									100.0				
VOLUNTEER WORK													
to 8th	14.9					36.0			18.2			30.9	
8+ not grad HS	5.1	17.9		2.9		5.5	3.4	6.7	45.7		10.1	2.7	
grad HS	14.7	3.7				2.1	8.2	1.1	49.4	4.0	7.5	6.8	2.5
some college	7.3	12.2	2.0	2.0	2.6		3.5		60.1	2.3	3.5	4.5	
grad 4-yr college	7.0	2.0					3.6		72.2		0.8	14.4	
post grad	1.6	4.0			1.6				77.4	2.4	10.4	2.6	
PhD	11.6								88.4				

TABLE K-6 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
CLUB ACTIVITIES													
to 8th		59.8					29.9		4.2			6.0	
8+ not grad HS	13.8		8.8	3.2		8.8		10.7	41.7		13.1		
grad HS	12.5	9.8		1.3	1.6			0.5	59.1	7.9	4.0	3.3	
some college	14.9	5.3		4.0	5.7		5.3	1.1	44.0	8.5	2.9	8.0	
grad 4-yr college	2.6						2.4		80.7	9.4	1.6	3.3	
post grad	7.1							25.7	62.8	2.6		1.7	
PhD													

TABLE K-7 Reasons for not Increasing Participation by Income

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO SYMPHONIES													
to 5000	14.6	18.9	1.8	6.3		0.8	3.0	15.2	15.6	13.3	10.5		
5001-8000	4.2	12.4			1.6		10.7	30.1	15.2	21.3	4.5		
8001-10000	15.7	9.7	1.4	12.8				7.0	21.8	30.6			1.0
10001-12000	45.5	13.1	4.2		2.3			1.1	24.3	9.4			
12001-15000	15.2	7.2	1.5	1.8	8.0			16.8	22.3	25.2		0.9	
15001-20000	16.6	15.2	0.6	0.9	5.1			12.9	19.0	20.0	9.1	0.6	
20001-30000	27.3	18.4	7.7	2.5		0.5	0.6	15.0	15.6	10.7		1.5	
over 30000	33.4	15.6	7.9	6.4		0.4		2.4	13.0	20.8			
GOING TO OPERA													
to 5000	1.6	21.0	17.4			1.1		15.4	10.1	26.4	7.0		
5001-8000	3.6	16.5			10.6			21.5	3.9	40.0	3.9		
8001-10000	9.0	12.0	12.2	7.2				2.4	24.8	32.4			
10001-12000	11.2	23.8	13.8					2.0		49.1			
12001-15000	17.8	17.3	1.9		18.1			13.2	22.7	8.9			
15001-20000	30.6	9.6			1.4			14.6	5.2	33.0	4.8	0.8	
20001-30000	33 7	10.0	1.0	2.3				15.3	18.2	18.5		1.0	
over 30000	33.2	16.4	4.6	3.2	1.4	3.3		1.5	12.8	23.6			
GOING TO CHORAL CONCERTS													
to 5000	9.2	30.1	4.3	4.3				1.7	24.4	9.1	17.0		
5001-8000	29.0	8.8	4.1	4.1		5.9	8.2	10.6	14 9	14.1			
8001-10000	12.3	16.2	1.1	2.3	3.2	14.6		4 9	29.9	12.2		3.2	
10001-12000	17.3	27.6		4.5	2.9		3.1	7.5	21.8	10.1		5.2	
12001-15000	26.5	16.6		1.0	5.1			4.3	32.9	10.7	0.9	2.0	
15001-20000	11.1	11.9	5.3	12.2	1.6	0.8	3.2	6.2	26.1	19.4	1.9	0.3	
20001-30000	11 4	3.9	0.7	3.4	1.6	5.4	0.6	1.9	43.8	14.6	0.6	12.1	
over 30000	25.5	4.3	6.5	1.6		5.1			42.1	6.4		8.6	
SINGING IN A GROUP													
to 5000	7.5	18.5	2.0						53.9	5.7	12.6		
5001-8000	16.4	6.9		6.9	6.9				35.4	20.7		6.9	
8001-10000	11.1			4.1	11.3			11 1	28.8	20.1	1.4	12.2	
10001-12000	33.9	4.0		4.1					44.8	5.8	7.4		
12001-15000	11.6	2.4	1.6	2.4	8.1				49.6	12.6	5.0	6.8	
15001-20000	12.4	5.3		11.1	1.2		7.9		52.8	7.4	1.2	0.6	
20001-30000	12.2	4.3	2.7	1.5				0.8	50.5	9.1	0.8	18.0	
over 30000	30.3								66.2			3.4	

TABLE K-7 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO JAZZ CONCERTS													
to 5000	5.1	25.2	3.2			8.6		20.4	7.0	30.4			
5001 8000	27.4	9.9	6.3			3.2		24.4	4 7	24.0			
8001-10000	10.3	22.7	8.6		1.7			24.9	7.9	23.9			
10001-12000	37.8	4.9				18.1			18.1	21.2			
12001-15000	18.0	7.3	3.2		14.8	11.2		8.3	4.7	32.5			
15001-20000	10.9	13.9			3.1	7.2	1.5	12.7	17.1	29.1			4.5
20001-30000	16.6	13.2	0.6	1.1	0.6	3.6	2.0	8.9	16.0	33.5	0.6	3.2	
over 30000	12.7	11.6	1.2	1.5	4.2	3.0		8.7	11.8	45.2			
GOING TO FOLK CONCERTS													
to 5000	10.1	26.2	1.1		2.2	11.7		13.8	11.2	21.9	1.8		
5001-8000	3.0	23.6				3.2		36.1	15.3	18.9			
8001-10000	14.9	3.8				1.5	8.4	3.5	13.0	54.9			
10001-12000	31.7	9.7		0.8	4.6	15.2		4.4	15.6	15.6		2.4	
12001-15000	12.0	16.4		2.7	8.0	5.7		12.5	16.7	23.8	1.1	1.1	
15001-20000	17.0	8.6	3.8	1.7	0.8	14.0		2.6	22.0	23.3	5.4	0.8	
20001-30000	7.7	26.3	3.7	1.9		4.9	1.5	2.0	22.7	25.8		3.6	
over 30000	20.4	17.9	1.5		0.9	9.9		7.7	25.2	16.6			
PLAYING AN INSTRUMENT													
to 5000	4.9	11.4	3.9			3.9		27.2	40.0	0.8	7.2	0.8	
5001-8000	0.8	0.5			6.7			32.1	52.3		2.3	5.3	
80001-10000	4.4	3.3	2.9					66.9	16 2			6.3	
10001-12000	14.7	6.6						31.5	25.4	6.7	15.0		
12001-15000	7.3				7.7			28.0	51.2	3.8	2.0		
15001-20000	12.7	3.9	1.2				2.9	39.2	38.0	1.4	0.8		
20001-30000	2.9	3.3	1.4					25.5	58.0	2.0	0.8	6.1	
over 30000	1.5	4.7	0.7					11.5	68.0	5.3	3.5	2.5	2.3
DOING ART WORK													
to 5000		5.8	6.5		4.4			24.8	43.0	3.6	12.0		
5001-8000		4.8						34.0	37.5	19.3	4.4		
8001-10000	4.4	7.1			11.2			28.1	36.1	9.3		3.8	
10001-12000	7.0	6.7						20.6	47.3	7.2		6.2	5.0
12001-15000	3.0	7.6			8.3		0 4	27.2	42.4	5.6		5.5	
15001-20000	10.4	10.3			3.4		1.7	11.0	44.1	2.6	5.1	8.0	3.4
21000-30000	6.6	0.9			0.4		0.4	20.7	48.5	6.8	0.4	15.3	
over 30000	4.5	8.8			4.6	0.5		10.0	64.1	4 8		2.9	

TABLE K-7 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
DOING CRAFTS													
to 5000	5.9	1.7	5.2		2.9			21.1	39.1	6.1	11.6	6.3	
5001-8000	2.7	12.2					3.6	38 2	27.2	8.8	1.3	6.0	
8001-10000	3.3	6.6			5.2	0.9		22.6	39.4	8.1	0.9	13.0	
10001-12000	2.7	2.4						26.5	38.7	9.3	7.7	11.6	1 0
12001-15000	3.1	5.1			5.7		0.3	13.8	45.0	6 5	0.6	19.8	
15001-20000	4.5	9.6		1.0	2.3	0.7	0.3	18.3	52.1	2.8	2.0	4 2	2.2
20001-30000	3.4	4 0					0.3	19.8	48.3	5.3	1.0	17.4	0.5
over 30000	11.4				2.3			10.8	71.2	1.6	0.7	2.1	
TAKING ART CLASSES													
to 5000		13.0	10.7		1.2			43.4	19.1	5.5	7.0		
5001-8000	7.0	30.6			1.1		7.0	29 3	22.1			3.0	
8001-10000	1.6	9.0			7.3	1.6		24.9	27.3	19.0	1.0	8.2	
10001-12000	1.6	20.3					2 3	27.7	17.9	19.2	2.7	8.3	
12001-15000	0.5	5.6			10.2	2.4	2 6	32.2	26.9	7 9	3.5	9.0	
15001-20000	7.4	5.4			1.0			20.4	40.4	8.7	4.0	8.1	4.5
20001-30000	4.0	9.7				0.8	3.5	20 1	29.6	10.3	0.5	21.5	
over 30000	5.0	6.5		0.5	2.2		0.9	29.2	48.2	5.4		1.9	
GOING TO A BALLET													
to 5000	6.9	8.8	2.2					20.7	16.2	37 6		7.6	
5001-8000	22.4	11.6	12.1					22.4	12.4	19.1			
8001-10000	23.0	18.6							8.6	49.3			
10001-12000	30.6	10.2	3.6					6.7	14.6	33.3		1.1	
12001-15000	28.5	9.3	1.0		8.5	2.0		12.7	14.7	22.1		1.2	
15001-20000	29.2	5.1	8.7	0.8	1 8			6.7	14.5	26.4	4.4	2.5	
20001-30000	22.5	14.8	9.0				0.7	6.0	21.2	19.6		6.3	
over 30000	34.4	13.6	3.5				2.6	7.5	5.3	33 1			
GOING TO A FOLK DANCE PERFORMANCE													
to 5000	6.3	27.8	1.0					23.4	9.9	23.5	4.6		3.6
5001-8000	14.0					3.4		26 1	22.3	34.1			
8001-10000	31.0	8.7				0.9		14.9	7.3	37 1			
10001-12000	30.4	5.8	2.0			3.3		4.1	26.4	27.9			
12001-15000	11.6	9.4			11.1			4.7	15.8	42.4		5.0	
15001-20000	15.8	14 1	2.4	0.7	0.7	2.5		3.3	11.8	47.5		1.2	
20001-30000	16.9	6 3				0 6		10.5	23.0	35.4		7.4	
over 30000	25.6	5.6	1.1		0.8		0.8	10.7	20.4	34 9			

TABLE K-7 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO THE THEATER													
to 5000	0.8	19.6	4.8					19.3	27.1	20.4	8.0		
5001-8000	15.7	2.3	3.9	2.9		2.0	3.8	37.0	10.4	19.3		2.9	
8001-10000	8.7	17.1	11.1	3.6	6.4		0.7	23 9	9.1	16.7		2.3	0.4
10001-12000	19.8	25.5	3.8	2.1		2.3	2.2	21.1	3.6	19.6			
12001-15000	18.2	12.2	4.5	0.5	9.3	1.9	2.0	17.4	17.2	14.9		1.9	
15001-20000	13.1	13.1	3.3	4.0			0.2	26.7	13.7	17.0	5 4	3.4	
20001-30000	11.9	14.8	7.9	2.9	1.0	0.5	4.0	18.8	26.0	7.2	0.3	4 6	
over 30000	15.6	15.0	4.3	2.0	4.4	3.0	1.5	13.5	13.5	24.0		3.0	0.4
ACTING IN PLAYS OR BEHIND THE SCENES													
to 5000	5.0	1.3	15.3		6.1				38.5	26.6	7.2		
50001-8000	12.1							18.0	24.3	33.4	12.1		
80001-10000	9.9	13.1	3.1		8.0			13.4	26.5	26.0			
10001-12000	28.8	15.1			5.4				24.4	22.5		3.8	
12001-15000	4.3	15.8			12.6	2.0			63.6	1.5			
15001-20000	11.1	6.9						2.7	39.4	21.0	7.3	7.0	4.6
20001-30000	7.9	4.5						11.3	43.8	3.9	1.0	27.6	
over 30000	4.9	16.6	1.9					1.8	57.8	6.4	9.4	1 2	
WRITING FICTION													
to 5000	11.1	9.5	3.7					3.7	57.1		10.3	4.8	
5001-8000								18.0	69.9	12.1			
8001-10000	14.9	1.1					1.4	14.5	63.5			4.7	
10001-12000	13.1	9.0							54.1	11 0		12.8	
12001-15000	16.7	25.5			1.3			3.2	36.0	10.8	5.6	0.8	
15001-20000	4.8							9.7	73.2	10.0		2.3	
20001-30000	14.7	7.9			1.4			1.4	59.3	4.5		11.0	
over 30000	4.3	3.0						9.6	69.5	7.6		0.6	5.4
VISITING ART EXHIBITS													
to 5000	6.3	23.3	12.1		0.9	1.6			27.3	16.9		11.7	
5001-8000	15.9	8.5			6.9		12.1	1.0	9.9	34.0	11.7		
8001-10000	17.9	24.2			3.4			0.9	25.5	23.6	4.5		
10001-12000	25 6	31.5		0.9	3.5				22.1	16.4			
12001-15000	18.0	10.0		0.7	11.5	2.6	1.6	3.1	26.1	16.7	1.0	7.8	1.1
15001-20000	13.1	17.5	1.8	1.7	0.5	2.6		2.9	30.3	23.7	3.2	2.7	
20001-30000	12.9	24 8	1.9		1.9		0.7	3 7	20 2	26.8	0.4	5.8	0 8
over 30000	16.8	15.1				0.3	1.7		41.6	22.6		1.7	

TABLE K-7 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
VISITING CRAFT EXHIBITS													
to 5000	6.9	21.0	5.8		0.4	1.9	4.3	6.0	30 8	14.8	12.5		
5001-8000	12 9	15.1				6.4		7 6	26.2	18 2	1.8	7 5	
8001-10000	18.9	9 8		0.7	6.3	7.5		2.1	28 3	23.7		0.4	2.2
10001-12000	20.5	30.8		0.6	3 2	2.2		2.9	18.0	20.1		1.8	
12001-15000	9.7	10.9		2.7	9.4	7.2	2.1	10.6	26.0	19.8	0.8	1.9	0.9
15001-20000	18.2	16.9	1.2	1.6	2.8	6.4		0.5	27.6	18.1	1.5	3.0	
20001-30000	10.8	17.1		1 1	1.1	2.6		2.1	32.7	22 1	0.4	8.9	1.3
over 30000	14.8	20.4		2.1	0.9	1.2		1.1	40.2	17.8		1.0	0.6
TOURING BUILDINGS													
to 5000		16.5	6.0			3.8		9.4	24.9	12 7	22.0	2.8	1.9
5001-8000	8.5	8.6				0.4		17.4	18.7	44.7	1.6		
8001-10000	10.5	27.2		1.4	3.4	0.4	3.7	4.7	24.2	18.2	0.6	5.6	
10001-12000	21.2	18.0			3.0			2.1	32.4	21 1	2.2		
12001-15000	10.1	15.3		2.0	5.0	0.8		4.5	24 5	32.8	0 4	3 8	0.8
15001-20000	12.9	11.5	1.0	0.5	2.0	1.0		5.8	28.5	29.1	2.4	5 3	
20001-30000	12.4	18.5	1.1	1.1	1.8	2.9	1.0	5.0	31.2	22.3	0.3	2.0	0.3
Over 30000	19.0	11.6	1.2	3.1	1 2	2.7		0.5	39.0	20.1		1.1	0.5
RADIO OR TV OPERA, CLASSICAL MUSIC OR DANCING													
to 5000	22.5	5.5					4.6	5.5	49.3	12 6			
5001-8000	36.3						1.6		42.1	19.9			
8001-10000	19.4		1.7		7.2		10.9	6.5	30 7	9.2		14.4	
10001-12000	28.8		1.0				4.7		42.1	15.3		3 4	4.7
12001-15000	15 4		4.5		7.5		2.5		56.9	3.9		9.3	
15001-20000	29.8	3.7					3.3		33.9	19.6	8.4	1.3	
20001-30000	15.1		1.4				5.9		62.6	10.1		5.0	
over 30000	23.0	1.3	5.0						48.4	14.4		7.9	
RADIO OR TV JAZZ													
to 5000	7.8		17 4						41.5	15.4	7.7	10.3	
5001-8000	27.9						5.6		39 [illegible]	21.1		5.6	
8001-10000	15.5	1.9	6.3				9.2		30.0	32.4		4.8	
10001-12000	32.4	5.1					5.9		48.2	8.5			
12001-15000	11.8		3.7		11.8				48.7	22.9		1.2	
15001-20000	42.4								35.7	15.7		6.2	
20001-30000	9.4						11.7		57.1	18.6		2.9	
over 30000	17.3	1.0	1.0						59.0	20.7		1.0	

TABLE K-7 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
RADIO OR TV PLAYS													
to 5000	21.3		5.6		6.1		6.1		45.1	15.8			
5001-8000	30.1						5.1		39.9	21.1			3.8
8001-10000	26.5	2.9					6.1	6.3	41.2	17.1			
10001-12000	17.5		3.9				4.3		36.1	28.2		4.7	5.3
12001-15000	3.8	9.2			9.2	1.5	5.4	0.9	55.4	12.3			2.2
15001-20000	31.2		7.1				7.3	4.5	27.6	18.6	2.6	1.1	
20001-30000	17.4	0.9	7.1				1.9		51.7	7.5		13.5	
over 30000	35.2	1.7					1.3		54.1	5.0		2.7	
TAKING CLASSES IN ART HISTORY OR LITERATURE													
to 5000	17.7	23.6	8.4		1.0			9.6	24.2	4.7	10.2	0.6	
5001-8000	1.2	11.1						6.7	37.3	28.6	1.6	13.6	
8001-10000	9.7	17.7						11.0	39.3	17.7		4.7	
10001-12000	13.2	15.6					5.0	13.7	29.0	9.9	6.9	6.6	
12001-15000	13.7	27.9			1.1		2.8	10.6	26.9	13.4		3.6	
15001-20000	14.7	14.5					1.3	4.3	40.1	16.7		8.4	
20001-30000	5.2	21.8	0.7	1.5			0.7	10.5	34.8	10.8	0.7	13.1	
over 30000	3.9	14.5		2.0	0.5		5.2	0.9	53.7	12.4	0.8	1.2	4.8
WATCHING TV													
to 5000	6.8	4.2	12.7				19.1		40.4	9.1	3.5	4.2	
5001-8000	2.3		23.0	3.2			27.5		37.9			6.1	
8001-10000	15.2		3.0				34.2		37.4			10.2	
10001-12000			10.2				44.2		45.6				
12001-15000	10.2	8.9					23.8		46.7			10.3	
15001-20000	4.5						41.6		37.3	3.9		12.6	
20001-30000	16.0		1.2				34.9		41.8	4.3		1.8	
over 30000	2.8		1.0				30.2		54.6			11.4	
RADIO POP MUSIC													
to 5000	10.0	11.5	4.2				8.3		54.3	3.5	4.1	4.0	
5001-8000	17.5		5.1				15.3		48.1			8.9	5.1
8001-10000	6.4			1.0	1.9		25.7		52.8	7.0		5.1	
10001-12000	14.1		4.4				4.4		76.3			0.8	
12001-15000	9.0	6.2	2.6		6.4		4.1		64.8	1.7		5.2	
15001-20000	9.6						7.1		68.7	5.8	2.9	5.8	
20001-30000	7.2		5.0				4.3		80.2	1.8		1.5	
over 30000	9.3						7.3		66.2	2.7		14.5	

TABLE K-7 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
LISTENING TO RECORDINGS													
to 5000	8.2	6.3	9.5					15.5	51.2		3.4	5.8	
5001-8000	24.1	3.6				0.6		22.7	46.2			2.7	
8001-10000	9.4		3.8	1.1				24.8	53.1	3.8		4.0	
10001-12000	9.7		3.9					20.6	60.3	1.8		1.4	2.3
12001-15000	6.9				4.4			11.3	65.6			11.9	
15001-20000	11.8	0.4					1.6	18.0	60.3			7.7	0.3
20001-30000	8.8				0.7		0.4	11.7	68.0	2.5		7.9	
over 30000	4.7	1.0	0.4					6 4	81.3			6.2	
GOING TO POP CONCERTS													
to 5000	9.8	21.9	0.7		3.4	10.1		31.6	8.8	8.3		5.4	
5001-8000	14.4	14.5				6.9		52.7	4.6	6.8			
8001-10000	4.0	9.0	1.5		5.5	16.3	3.6	26.7	1.3	32.2			
10001-12000	13.1	19.4			0.7	21.9		12 4	13.5	14.2		4.9	
12001-15000	13.5	13.9	1.3	4.5	6.4	14.1	2.7	12.1	12.1	16.1	0.5	2.5	0.3
15001-20000	11.8	17.7	4.1	0.2	2.1	5.7	4.0	19.7	11.1	20.0	2.1	1.5	
20001-30000	9.8	13.9	2.3	3.9	4.3	15.8		24.6	12.3	10.1		3.0	
over 30000	7.5	8.2	3.8	2.5	8.2	11.0		26.6	20.2	8.8		3.2	
GOING TO FAIRS													
to 5000	3.5	19.9	2.0			18.2		21.6	5.7	17.7	8.7	2.7	
5001-8000	1.5	6.3			1.5	9.0	5.2	50.5	9.3	16.2		0.5	
8001-10000	1.4	7.7	1.5		10.4	12.6		31.8	7.6	26.6			0.4
10001-12000	14.7	10.9	3.7		4.9	13.4		27.0	8.5	17.1			
12001-15000	4.7	12.9			9.4	24.3		18.1	13.3	16.9		0.4	
15001-20000	7.0	9.7			3.2	16.8	0.4	14.8	29 8	15.0		3 2	
20001-30000	4.9	10.0	1.5		8.7	18.0		16.7	25.1	14.1		0.4	0.5
over 30000	5.9	13.3			7.2	26.9		4.4	24.6	17.6			
GOING TO MOVIES													
to 5000	10.8	8.2	2.1	0 5	3 2	2.7	10.1	30.4	20.9	5.4		5.8	
5001-8000	8.2	5.3	1.4		2.8	7.6	6.4	44.4	15.9			5.8	2.8
8001-10000	9.2	2.6	2.2	2.7	0.5	2.9	7.9	51.6	13.8	0.4		6.3	
10001-12000	10.7	1.5	4.3		0.5	1 7	8.4	49 9	12.4	5.2		5.4	
12001-15000	6.4	2.0	1 6	2.0	6.2	5.1	11.3	35.1	17.2	1.9		11.1	
15001-20000	9.7	4.3	5.5	3.1	3.1	0.5	11.4	30 9	15.8	5.0	2.5	8.1	
20001-30000	8.4	4.7	4.4	2.8	2.5	4.0	9.5	32.9	21.2	3.3	0.3	6.2	
over 30000	9 7	10.5	10.3	5.9		1.1	4.3	29.5	24.8			3.8	

TABLE K-7 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
WATCHING SPORTS ON TV													
to 5000	24.3	2.6	5.6		5.6				60.9			1.1	
5001-8000	12.8			3.5		1.0		13.2	52.9	4.1		12.6	
8001-10000	20.6					8.4		1.5	68.0	1.5			
10001-12000	22.1		6.2				2.3		65 5	3.9			
12001-15000	15.8	3.4					1.9		62.0	12.9		4.1	
15001-20000	28.7						2.3		53.5	8.1		7.3	
20001-30000	18.3						1.0	6.4	52.9	5.3		16.2	
over 30000	14.1					1.1	1.1		71.2	4.8		7.6	
GOING TO WATCH SPORTS													
to 5000	9.6	22.7		0.6	2.0	9.5		23.5	21.2	0.7	3.4	6.7	
5001-8000	1.5	8.8	3.6		3.3	18.6		43.4	13.0	1.3		6.4	
8001-10000	8.2	20.2	1.5			18.7		21.0	10.4	17.9		2.0	
10001-12000	11.4	18.8	1.4		1.8	10.8		24.8	18.3	8.2	4.2	0.4	
12001-15000	15.0	15.5		1.5	3.3	10.5		20.4	19.1	10.5	1.5	2.9	
15000-20000	6.7	19.7	2.0	0.9	2.4	5.8	1.2	27 4	16.3	15.0		1.5	1.1
20001-30000	12.6	14.8	4.4	0.4	0.8	6.6		30.9	19.2	6.4	0.7	3.2	
over 30000	5.8	14.5	1.5	1.7	3.7	11.3	0.4	18.5	29.3	7.3		2.6	3.3
PLAYING COMPETITIVE SPORTS SPORTS													
to 5000	8.6	5.5							55.1	14.4	13.2		3.2
5001-8000	18.2							15.7	30.4	26.3		9.4	
8001-10000	20.2	5.7			6.8	0.8			38.2	18.0		7.7	2.5
10001-12000	21.7	2.0			2.5		0.8	1.3	45.3	9.5	16.0	1.0	
12001-15000	12.0	4.2	3.7		8.4			8.7	44.9	0.9	11.0	6.2	
15001-20000	17.1	6.2	3.1		8.7	4.8		1.1	32.9	5.3	15.6	5.1	
20001-30000	5.4	0.7	0.6		7.3	4.3	1.2	8.4	33.9	15.2	15.2	7.8	
over 30000	4.3	10.8			6.1	1.2		12.6	46.4	3.6	13.9	1.0	
EXERCISE PROGRAM													
to 5000	6.9	5.8	3.0		7.0		3.9	6.2	44.9	7.2	7.9	4.7	2.3
5001-8000	6.2	11.2			5.3		3.7	3.2	63.7	2.8		3.7	
8001-10000	14.0	3.6		0.9	6.8	0.9	4.2	3.1	42.0	3.2	6.7	13.1	1.6
10001-12000	18.7	9.6			1.9			2.0	45.8	2.1	13.1	6.7	
12001-15000	19.6	8.4		1.1	7.5	1.4		6.7	42.4	4.3	4.2	4.5	
15001-20000	11.7	5.6			4.0		0.4	2.9	55.0	2.8	13.6	4.0	
20001-30000	8.3	1.1	0.4		1.9	2.8		2.3	74.2	1.2	2.5	5.4	
over 30000	2.6	11.1			4.3				74.7	1.2	5.2	0.8	

TABLE K-7 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
CAMPING, FISHING, ETC.													
to 5000	15.2	9.6			3.9			15.0	29.6	2.4	19.4	3.6	1.3
5001-8000	16.0	10.9						11.6	39.2	14.7		7.6	
8001-10000	22.8	8.6			2.6			13.3	34.5	5.3	2.3	7.8	2.8
10001-12000	18.0	5.6			3.4	1.0		10.1	41.3	5.8	6.3	8.6	
12001-15000	11.7	10.3	1.3		4.4	2.1		12.0	41.0	4.1	4.3	9.0	
15001-20000	14.8	11.3	0.6		4.1	0.8		14.6	43.7	4.0	4.1	1.8	
20001-30000	13.6	7.7	0.5	0.8	3.9	0.7		11.6	42.7	6.1	0.7	11.7	
over 30000	14.9	8.9			3.4			9.6	57.8	2.1	0.4	3.0	
PICNICKING, PARKS, ETC.													
to 5000	19.6	12.2	4.0		0.6	4.5		11.4	32.9	4.4	6.8	2.3	1.3
5001-8000	18.5	15.6			2.2	1.8		16.1	41.7	1.8		2.4	
8001-10000	10.7	3.5		0.8	7.8	3.3		11.9	46.4	7.0	0.9	6.7	1.0
10001-12000	11.0	11.5			6.3	2.3		6.3	46.6	8.6	3.7	3.6	
12001-15000	11.9	12.9	1.5	0.8	12.8	5.1		6.1	39.1	8.5	1.5		
15001-20000	15.4	11.9			4.5	1.0		10.0	43.2	8.6	5.1	0.3	
20001-30000	5.7	12.8		0.4	10.5	6.8		8.0	49.6	4.4	0.5	1.3	
over 30000	12.4	6.0		2.2	4.4	1.8		2.2	66.9	3.7	0.3	0.3	
PLAYING WITH CHILDREN													
to 5000		20.5	11.6	6.5				6.5	34.0	6.5	6.5	7.8	
5001-8000	10.8	4.4			4.4				65.4	10.5			4.4
8001-10000	5.8	7.8							75.4	6.3	4.8		
10001-12000	3.8	0.8			2.3				83.1	1.6	3.5		
12001-15000	5.0	3.7	2.2				0.5		76.4	2.6	3.4	3.6	2.6
15001-20000	7.2	6.4	1.6	1.8				0.8	73.1	0.7	4.2	4.1	
20001-30000	3.3	1.1				1.3			87.5	3.5	0.9	2.3	
over 30000	4.9				4.9				80.7	5.0	4.0	0.5	
PLAYING INDOOR GAMES													
to 5000	16.2	9.6	3.3		0.7			6.2	52.9	5.4	1.9	3.9	
5001-8000	33.3	3.9		1.7		3.9		3.9	42.6	7.8		2.9	
8001-10000	31.9			3.3	8.9			7.0	39.1	4.8	1.1	3.9	
10001-12000	47.1		0.5		7.2			4.3	40.2			0.7	
12001-15000	28.7	2.0			4.1		1.7	2.1	49.3	2.5	1.4	7.4	0.7
15001-20000	28.6	5.3		1.7	1.7	2.2	1.5	1.2	43.4	7.5	4.1	2.6	
20001-30000	28.2		1.3	0.7	6.5	0.5			56.1	1.2	0.9	4.2	0.5
over 30000	18.1	2.3							68.3		1.7	9.7	

TABLE K-7 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
FAMILY & FRIEND VISITS													
to 5000	8.3	21.3	4.9			2.8		4.7	44.6	2.8	5.1	5.5	
5001-8000	9.3	18.1	1.4	2.8				19.1	41.7	1.8	2.8		2.8
8001-10000	5.6	9.1		6.2				7.9	57.8	2.2		11.2	
10001-12000	14.1	14.9		1.7				13.1	51.3	3.4	0.9	0.6	
12001-15000	4.7	11.3	1.8	3.5				8.9	68.8		0.6		0.4
15001-20000	7.5	12.4	0.6	0.5				10.3	61.9	2.8	2.7	1.3	
20001-30000	1.9	13.6	0.5	1.1				5.2	70.1	0.3		7.5	
over 30000	4.4	9.9		1.2				5.5	71.8	6.4		0.8	
CHURCH & CHURCH ACTIVITIES													
to 5000	10.0	14.5	2.0	11.5		1.2	5.6		30.7	1.1	18.3	5.1	
5001-8000	20.4	12.9	2.9	12.0	1.2		2.9		34.7	2.9	4.1	3.1	2.9
8001-10000	8.3	0.6	1.0	14.3		0.7	9.4	1.6	48.2		1.3	14.6	
10001-12000	28.5	9.1		16.2		2.1	8.1	3.3	26.7		2.4	4.6	
12001-15000	16.7	5.3		12.9	5.1	1.3	0.9		44.1	2.2	3.0	8.5	
15001-20000	17.9	3.5	2.1	11.7	0.3		2.0		56.5		0.8	5.2	
20000-30000	17.6	2.3	1.5	9.6	0.4	3.3	2.4		52.3	1.1	1.5	7.8	
over 30000	22.5	7.4		1.0			2.1		63.2		2.9	1.0	
PLAYING WITH PETS													
to 5000	4.6	15.5						5.6	51.9		11.2	11.2	
5001-8000	10.3							25.1	54.2		10.3		
8001-10000	1.7	1.0						9.5	78.3	9.6			
10001-12000	15.6								72.6		11.8		
12001-15000	7.3	5.8			5.3				72.8		4.5	3.7	
15001-20000		2.8						5.4	79.7	7.1	4.9		
20000-30000	6.3		0.7		4.1				81.4	3.5	0.7	3.1	
over 30000		7.2							90.8		2.0		
READING													
to 5000	14.0	3.9						2.2	65.8		5.8	8.2	
5001-8000	6.3				3.2			10.2	61.9	3.2	2.7	12.5	
8001-10000	7.0							6.4	78.3		0.9	7.5	
10001-12000	6.1	1.2						5.8	73.0	2.8		11.1	
12001-15000	8.4	4.3			0.2			2.6	60.9	0.5	4.1	19.0	
15001-20000	3.7	0.4						7.2	78.7	0.4	0.3	9.3	
20001-30000	3.1	2.3						1.4	78.7		1.3	13.3	
over 30000	1.3				0.7			0.8	94.3			2.9	

TABLE K-7 Continued	1	2	3	4	5	6	7	8	9	10	11	12	13
WATCHING NEWS OR READING NEWSPAPERS													
to 5000	6.5	3 0	10.7		3.0		7.8	0.8	55.8	3.0	5.4	4.1	
5001-8000	10.9	1.5	4.9	5.5				3 6	55.1	3.6		11.1	3.6
8001-10000	22 6						6.4	0.7	54.2	0.7	0.8	14.8	
10001-12000	15.4						7.8		62.8	10.1		3.8	
12001-15000	12.1	5.5	0.6		1.3		8.8		58.8	4.2		8.7	
15001-20000	13.8	4 2	1.0				8.1		52.2	12.1		7.2	1.4
20001-30000	10.1	1.1	3.7				5.3		63.6	1.5		14.6	
over 30000	9.3						1.2		78.4	1.5		9.6	
DO-IT-YOURSELF ACTIVITIES													
to 5000	5.0		4.0		2.9			28.8	46.9		10.1	2.3	
5001-8000	7 0							36.2	42.8		9 8	1.2	2.9
8001-10000	4.8							21.6	60.9	8.6	0.7	3.4	
10001-12000		2.0			1.4			36.5	43.6	0.5	8.5	3.8	3.8
12001-15000	2.1	4.1			5.1			20.6	55.1	0.4	2.7	8.4	1.5
15001-20000	1.0	0.6			0.9			33.0	59.1	0.3	2.6	2.5	
20001-30000	4 2	1.6			3.3			24.6	54.9	1.3	0.9	8.8	0.4
over 30000	1.4	0.6			0.3			10.3	83.4		1.8	2.1	
THINKING & DAY-DREAMING													
to 5000			12.3						75.4			12.3	
5001-8000	5.8					11.0			75.1			8.3	
8001-10000		3.3				3.2			78 5			15.0	
10001-12000	13.1							2.2	84.7				
12001-15000	5.9	4.9							70.1	1.9		15.9	1.2
15001-20000	2.0				3.3				94.7				
20001-30000	1.5	1.1			1.1				77.3	1.1		18.0	
over 30000									91.4			8.6	
VOLUNTEER WORK													
to 5000	2.6	13.3	3.4			5.3	3.7		44.0	3.7	22.1		1.9
5001-8000						10 8	5.4	5.4	62.2	5.4		5.4	5.4
8001-10000	13.3	7.8	1.8	1.3			19.6		43.2	4.7		8.4	
10001-12000	5.2	5.3							67.4	2.7	9.6	9.6	
12001-15000	21.6	20.3		0.5	5.3		4.8		40.7	2.2	2.2	2.4	
15001-20000	12.7	8.2		2.4	0.9		9.3	1.0	53.0	2.0	5.0	5.5	
20001-30000	10.2	2.8		2.6			3.8	3.5	53 7	0.8	2.8	19.8	
over 30000	9.6	5.2							78.3	1.2	3.7	1.9	

TABLE K-7 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
CLUB ACTIVITIES													
to 5000		27.1						10.4	40.0	10.4	13.9		
5001-8000	10.5			6.4		10.5	10.5		52.7				
8001-10000	16.3						5.7		70.7		7.3		
10001-12000	22.1	15.5							38.0			4.6	
12001-15000	15.2	1.8		2.8	7.6		1.2		55.3		1.5	4.7	
15001-20000	5.7	16.5						16.8	45.5	16.8	9.0	6.6	
20001-30000	2.8			6.7	4.8				65.6		1.4	17.4	
over 30000	20.5		8.6		1.3		6.5	5.8	53.4	5.2	2.2	1.0	

TABLE K-8 Reasons for not Increasing Participation by Occupation

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO SYMPHONIES													
white collar	17.7	12.0	4.9	3.1	3.6	0.4	1.0	13.6	19.0	19.4	2.2	0.4	2.7
blue collar	26.0	1.6			3.0			3.5	34.3	26.5			4.5
farm										100.0			
service	21.7	13.1	13.9	7.7				8.6	24.0	10.9			
housewives	30.2	15.6		6.2				12.8	7.7	16.9	3.3	1.2	4.3
retired	6.2	16.2						14.2	33.8	4.9	19.9		1.4
students	21.1	17.7	4.5	5.2			5.2	9.6	11.5	22.9	1.0		1.3
GOING TO OPERA													
white collar	16.9	19.6	4.5	0.6	4.1	0.4		14.0	13.1	24.7	1.2	0.3	0.6
blue collar	13.8	20.2			2.7			1.7	2.7	40.9			4.0
farm													
service	7.6		10.0	5.6				28.2	29.6	19.0			
housewives	32.9	11.4		1.9	0.5	3.2		10.1	14.1	19.2		0.5	3.5
retired	9.5	6.4	8.7		10.1				9.4	32.5	19.8		
students	15.9	13.0	11.7					12.5	10.9	33.6	1.3		1.1
GOING TO CHORAL CONCERTS													
white collar	17.7	13.9	1.0	2.3	3.6	1.4	0.2	3.7	38.4	11.2	0.4	1.2	4.4
blue collar	9.5	11.3	4.8	9.9		8.9	1.1	8.4	26.7	18.0		1.2	0.4
farm			42.7							57.3			
service	16.5	3.7		17.4	5.8	11.7			24.5	20.4			
housewives	24.3	14.2	2.0	3.6	0.9	3.7	3.1	7.9	20.2	6.6	0.4	6.9	5.3
retired	14.7	16.9		7.6		0.8			8.7	14.5	34.9		
students	8.5	26.2	10.3			2.3	4.7	1.0	22.7	7.8	0.9	4.7	10.8
SINGING IN A GROUP													
white collar	20.8	4.5	0.5		3.2				50.4	2.5	2.9	6.7	7.5
blue collar	10.7	6.1	1.9	8.4	5.3			0.5	48.4	12.6			6.0
farm									29.0	71.0			
service	17.1	6.0		15.1					44.9	10.0			6.9
housewives	14.2	8.7	1.8	0.8	4.2				23.4	14.4	9.2	11.8	9.4
retired	3.5			14.9					58.6		14.1		5.1
students	15.4	11.8					5.9	4.5	40.6	5.6	0.8	4.6	2.5

TABLE K-8 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO JAZZ CONCERTS													
white collar	14.0	12.5	1.9	0.5	5.1	4.6		14.8	8.4	32.8	0.2	0.2	4.7
blue collar	23.4	6.2	5.7		0.6	8.5	1.6	15.4	10.3	26.0		1.7	0.6
farm										100.0			
service	6.6	22.5				14.5		33.3	23.2				
housewives	30.7	5.1	1.3	0.8	0.6	10.7		13.5	16.2	18.5		0.5	
retired		19.1						2.7	17.8	35.0			18.6
students	0.7	25.3	5.7		4.5		2.5	10.6	3.4	39.2	0.8		7.3
GOING TO FOLK CONCERTS													
white collar	8.0	16.3	2.2	0.8	2.9	6.1		11.6	18.7	24.1	2.0	1.9	5.5
blue collar	25.5	13.9	1.1	2.5		12.5		3.7	20.3	17.2			3.3
farm													
service	6.0	2.2	7.4			1.7	12.9	11.5	37.2	21.1			
housewives	13.9	17.3		1.1	4.2	11.8		13.8	12.4	21.9	0.8	1.2	
retired		32.7			1.9			7.4	25.9	25.7	3.6		
students	14.3	19.0		0.8	1.2	14.6		7.4	14.1	27.0	1.0		0.5
PLAYING AN INSTRUMENT													
white collar	6.6	1.5	2.0		1.9		1.0	25.4	46.7	1.7	1.7	1.8	8.5
blue collar	10.3	1.0	2.2		4.3	4.3		15.2	46.6		1.8	1.4	12.7
farm								61.1	38.9				
service	19.1	1.3						33.7	38.3	3.5			4.1
housewives	3.9	4.8						41.7	22.9	1.6	4.8	7.6	11.1
retired								29.9	25.0	2.9	28.0		10.4
students	0.5	10.1	0.5		3.5			23.9	43.6	4.8	0.5		12.6
DOING ART WORK													
white collar	6.6	7.7			2.2	0.1	0.1	22.6	49.0	1.7	2.4	2.0	6.4
blue collar	2.6	6.8			4.1		0.6	24.4	37.0	15.2		0.8	8.4
farm									51.3			48.7	
service								14.3	78.6			1.7	5.4
housewives	4.3	6.2			3.8		0.7	14.2	33.5	13.9	2.0	15.3	5.1
retired					1.0			26.6	29.9	6.7	31.6		1.7
students	3.8	7.7	2.6		11.5		0.3	19.0	37.3	3.3	0.6		13.9

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TABLE K-8 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
DOING CRAFTS													
white collar	5.7	4.9			1.4		0.1	20.7	53.1	3.0	2.1	5.0	3.9
blue collar	1.0	7.8		1.4	3.7		0.5	19.1	40.7	13.8	2.8	5.0	4.3
farm								83.9				16.1	
service	0.9							10.3	70.1	2.2		14.2	2.2
housewives	4.7	6.6			1.0	0.8		24.0	31.5	5.9	1.5	20.6	2.8
retired	9.2	7.5			6.9			11.2	28.5	5.0	26.1		3.9
students	4.4	7.1	2.7		10.4		0.4	7.2	40.1	7.9	1.2	3.5	14.9
TAKING ART CLASSES													
white collar	6.1	14.4		0.2	2.5	1.2	0.6	26.3	34.1	4.0	1.9	1.8	4.9
blue collar	0.7	17.8			1.1		2.4	35.3	17.8	21.8		2.5	0.5
farm									33.3	66.7			
service					4.8			24.1	50.4	13.9		6.9	
housewives	0.9	5.7				0.8	1.6	27.4	21.1	10.6	2.6	24.2	3.8
retired	13.7	6.2			10.2			2.1	27.6	8.3	16.6		12.1
students		10.7	3.7		7.8		2.4	25.0	25.8	9.5	0.9	4.8	9.4
GOING TO A BALLET													
white collar	20.2	9.9	5.0	0.3	3.1	0.6	1.4	8.6	15.5	29.6		3.5	4.2
blue collar	19.7	18.0							24.0	24.1		3.7	
farm													
service	12.5	7.0						23.5	9.8	45.7		1.5	
housewives	40.0	10.7	4.8					2.9	6.5	27.4		2.6	3.2
retired	24.5	7.5							2.6	44.2	14.7		
students	10.5	11.5	7.9				0.4	21.6	7.8	35.5	0.8		0.6
GOING TO A FOLK DANCE PERFORMANCE													
white collar	12.2	6.0	1.1	0.3	2.6	0.9		10.2	24.5	39.5		2.2	0.5
blue collar	10.4	13.8			4.9	2.6		13.0	12.7	39.6		2.9	
farm								100.0					
service		2.5	7.5					40.0	8.3	41.7			
housewives	36.6	7.2				1.6	1.3	5.2	6.6	31.6	1.4	3.9	2.8
retired	18.3	13.7							9.8	48.7	4.6		1.4
students	3.6	24.6				1.8	0.9	18.4	13.4	31.9	1.1		4.4

TABLE K-8 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
GOING TO THE THEATER													
white collar	12.3	16.4	4.9	3.1	2.3	1.7	1.4	22.9	15.1	12.8	1.9	3.1	1.3
blue collar	16.4	10.9	0.9	3.2	0.8		4.3	18.0	20.1	20.6		3.7	1.1
farm									100.0				
service	9.7	1.9	6.8	2.6	8.4		1.2	29.7	19.5	20.3			
housewives	25.0	11.4	1.0		0.8		3.2	26.6	10.1	16.8		3.8	0.3
retired	4.3	12.2	13.1					17.3	16.5	9.0	23.4		1.8
students	0.6	13.8	15.2	1.9	4.6	2.7		14.7	18.5	24.2	0.5		3.4
ACTING IN PLAYS OR BEHIND THE SCENES													
white collar	15.5	8.2	3.7		6.0			3.3	38.6	10.9	7.5	0.6	2.9
blue collar	12.6	9.7						1.4	29.5	22.4			24.4
farm								100.0					
service		5.6			6.0				43.7	36.9			8.8
housewives	11.5	2.6			5.1			7.9	20.4	18.5	4.8	24.5	1.8
retired									38.2		47.4		
students	5.4	8.8	5.2			1.8		4.5	40.1	17.1	0.8		16.4
WRITING FICTION													
white collar	12.1	2.3					0.4	12.6	54.6	7.0	1.2	2.4	7.4
blue collar	14.0	14.6							47.9	7.5		10.3	5.8
farm										100.0			
service		10.6						11.0	74.7				3.8
housewives	7.0	14.5						8.1	43.5	7.4	1.2	10.3	5.0
retired		14.8			15.9				17.3		44.7		2.1
students			3.5		0.7			0.7	73.0	1.7	0.8		19.6
VISITING ART EXHIBITS													
white collar	14.8	15.0	2.1	0.2	3.0	0.8	1.2	0.1	30.0	23.5	0.9	4.1	4.4
blue collar	11.0	19.9			5.0	3.3		4.5	27.5	20.4		3.1	5.4
farm										100.0			
service	10.9	10.9	4.9		11.4				45.3	15.3			1.2
housewives	19.2	24.0		1.5	2.3	1.1	0.7	2.1	18.2	18.4	0.4	9.6	1.6
retired	11.2	19.7			1.1		2.6	1.9	1.1	22.9	35.6		1.1
students	3.6	24.1	2.6				3.8	1.0	25.2	29.9	0.6	0.6	8.8

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TABLE K-8 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
VISITING CRAFT EXHIBITS													
white collar	15.4	11.4		0.8	2.3	4.6	1.2	1.7	38.8	16.6	1.6	1.4	4.1
blue collar	10.9	9.6		0.8		7.6		9.0	30.3	21.4		4.3	2.8
farm												100.0	
service	10.9	6.8	3.9	1.6	8.9			6.1	53.4	8.4			
housewives	15.9	23.2		2.1	2.0	4.5		3.8	19.5	18.4	1.4	6.4	2.2
retired	9.9	27.0				0.8		9.6	9.5	15.7	24.6		0.8
students	5.1	23.8	2.9		5.0	6.6	3.8		16.1	33.4	0.7	0.6	2.1
TOURING BUILDINGS													
white collar	14.2	12.2	0.4	1.8	3.8	0.6		3.2	34.8	21.4	1.2	4.2	2.1
blue collar	9.8	14.1		1.9	1.4	0.3	3.9	6.5	31.3	27.1	1.2	1.9	0.7
farm									27.9	66.4		5.8	
service	15.0	4.2	4.4	3.3	6.8			2.6	49.2	14.4			
housewives	12.5	20.1			0.4	1.8		8.8	21.6	26.1	1.8	3.8	2.2
retired		12.5			0.7	0.7		14.9	7.2	20.6	42.7		0.7
students	4.8	23.0	3.6		0.5	5.7		1.6	18.7	32.0	0.5	0.5	9.2
RADIO OR TV OPERA, CLASSICAL MUSIC OR DANCING													
white collar	24.5	1.6	1.8		4.1		5.7	1.3	39.2	12.4	2.4	5.3	1.6
blue collar	38.5	6.4	3.9				0.9	6.4	35.9				5.7
farm									100.0				
service	11.7	3.9							51.7	10.2		4.6	8.0
housewives							2.6	1.0	43.0	15.0		9.6	6.8
retired	8.3								57.7	10.8	10.1		8.7
students	8.3	1.5					12.1		46.0	21.2	1.2		4.7
RADIO OR TV JAZZ													
white collar	14.1	0.9	3.3		2.9		1.7		45.8	23.9		3.0	4.4
blue collar	24.1	1.3					15.1		25.3	20.7		7.9	5.5
farm							50.0		50.0				
service	37.9						7.3		69.6	18.8		10.7	
housewives	23.6	1.6							44.7	12.2	6.6	8.0	
retired	7.6								36.5	24.3			23.4
students	25.0	0.6	5.6						42.3	22.3	1.1		3.1

TABLE K-8 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
RADIO OR TV PLAYS													
white collar	19.8		2.2		2.1		6.0	3.4	47.4	13.1		0.6	5.2
blue collar	18.3	9.3					1.9		41.7	10.4			10.3
farm									9.2	90.8			
service	35.8		20.4						15.0	17.5		2.9	8.4
housewives	33.5	2.2	0.6				7.9	0.4	30.5	9.1		10.4	3.6
retired	23.0				13.1				40.7	5.8	7.5		6.5
students	9.1		9.2			0.8			48.0	24.3	0.9		7.5
TAKING CLASSES IN ART HISTORY OR LITERATURE													
white collar	9.7	19.3	2.7	1.0	0.5	2.0	2.0	7.1	45.1	8.4	0.2	3.3	0.8
blue collar	3.9	25.2				1.7	1.7	11.2	39.7	11.8		5.6	0.8
farm		4.8						47.6		47.6			
service	5.0					5.6	5.6	10.8	51.0	24.9		2.9	
housewives	9.0	26.5		0.6	0.3	1.9	1.9	6.2	22.8	12.5	1.4	15.8	1.4
retired	10.0	31.8			8.0			2.1	2.1	12.0	31.1		
students	6.7	1.4	4.3		0.9	1.5	1.5	4.6	43.1	24.8	1.0		11.7
WATCHING TV													
white collar	5.7	2.3	4.7	1.2			26.8		44.3			10.6	4.0
blue collar	2.3	5.0	4.3				28.4		42.5	6.9		10.5	
farm	3.0						29.9		67.1				
service							10.2		75.2			7.9	6.6
housewives	7.6		5.0				30.4		35.5	0.6	3.6	8.1	2.7
retired	9.0		1.2				58.3		11.5		11.6		
students	20.5		7.1				8.1		49.4	7.1	1.3		6.6
RADIO POP MUSIC													
white collar	10.1	2.8			1.5		12.6		62.5	1.7	1.1	3.9	2.9
blue collar	10.6	1.9	4.2	0.6			11.8		62.2	4.3		3.4	1.0
farm									100.0				
service	4.0						6.7		63.9	3.8		8.0	13.6
housewives	15.9		0.9		1.1		4.0		53.2		3.0	14.2	6.2
retired	22.0		22.0				3.8		30.9				15.8
students	6.6	3.7	0.8		2.6		4.7		58.2	9.9	0.9		7.6

TABLE K-8 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
LISTENING TO RECORDINGS													
white collar	10.2	1.5	1.3		1.3		0.6	15.9	57.3	1.2		4.7	5.2
blue collar	15.3		2.1				0.3	15.3	60.9			4.9	14.3
farm									100.0				
service	12.1		11.0					10.3	46.8			9.6	10.1
housewives	11.1	0.3		0.7				13.3	55.0		2.4	13.8	2.1
retired	13.2	10.9						17.1	26.9				28.6
students	4.9	3.3	2.5			0.5		26.2	49.5	3.2	0.6		6.2
GOING TO POP CONCERTS													
white collar	8.0	14.7	2.1	2.4	4.1	12.2	3.1	22.3	12.9	11.1	1.0	3.3	3.0
blue collar	9.5	14.2	2.1	2.0	6.9	13.3		19.9	9.2	22.8		0.7	0.2
farm		4.0			17.2			32.8	38.7	7.2			
service	14.2	17.6	1.4		1.1	8.1	7.3	23.8	11.9	10.3		4.4	
housewives	19.2	16.3	3.3	0.8	2.0	14.9		23.1	6.9	8.5	0.4	3.7	
retired	14.2	23.0				1.5		24.0	20.6	10.7			1.7
students	1.0	18.8			0.8	8.5		35.3	7.3	19.9	0.6		5.4
GOING TO FAIRS													
white collar	5.2	10.2	0.9		5.3	14.7	0.8	19.8	18.7	18.7	1.2	0.4	3.1
blue collar	5.9	7.6	0.5		3.8	14.6	2.3	28.4	17.5	16.9		2.6	
farm						18.9		31.7	49.3				
service	8.7	5.7			3.4	17.8		18.0	25.3	21.1			
housewives	5.9	10.8			7.0	16.8		24.6	10.0	18.2	1.8	2.7	1.1
retired	7.5	7.4				30.8		21.9	10.2	4.0	14.7		1.0
students		22.2	3.9		2.4	16.0		17.0	9.7	22.8	0.6		5.2
GOING TO MOVIES													
white collar	8.4	3.8	5.0	3.0	3.1	3.5	10.1	33.8	20.4	0.6	1.3	4.8	2.3
blue collar	7.9	3.7	2.1	2.4	1.5	2.1	6.5	34.0	23.7	5.4		7.8	2.9
farm			37.9					4.7	57.5				
service	9.3	1.0	13.1			2.1	10.6	41.0	9.3			7.5	6.1
housewives	13.0	7.4	1.8	1.6	2.4	3.4	5.7	39.5	7.5	3.1		12.4	1.5
retired	8.0	8.8			8.0		31.8	30.5	9.0	1.0			0.8
students	4.2	5.0	2.3	1.0	2.9	2.4	2.7	39.4	19.4	10.4	0.5		7.8

TABLE K-8 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
WATCHING SPORTS ON TV													
white collar	19.2		1.3	1.1			2.0	1.6	61.6	7.1		2.4	3.1
blue collar	16.4	2.1						0.6	65.2	6.1		9.6	
farm	4.4								95.6				
service	32.4								54.4			13.1	
housewives	13.9						2.7	8.1	50.4	6.1		14.8	
retired	54.5	6.5							33.1	2.4			
students	9.7					7.6		5.9	58.9	2.1	1.1	5.9	4.4
GOING TO WATCH SPORTS													
white collar	8.9	13.8	3.5	0.4	2.5	8.5	0.1	25.8	20.2	11.1	0.1	2.5	2.6
blue collar	6.6	15.5	0.2	0.8	1.9	8.4	1.0	24.3	23.4	11.9	2.0	3.6	0.2
farm	2.4	4.5						73.3	19.7				
service	7.1	15.7	3.0	2.4		26.4		20.9	17.9	5.8		0.8	
housewives	14.6	16.8	0.8	1.8	3.3	11.5		19.3	10.0	5.6	1.0	8.4	5.2
retired	21.5	14.3				6.2		35.6	8.3	2.3	9.2		0.8
students	1.0	31.3	0.4		1.1	11.6		24.4	14.4	6.4	0.5		6.5
PLAYING COMPETITIVE SPORTS													
white collar	12.2	3.3	1.3		6.2	1.7	0.4	4.5	40.2	12.3	10.7	2.5	4.4
blue collar	18.1	4.3	1.9		0.9			8.1	46.0	3.9	8.6	0.3	7.9
farm									18.0	82.0			
service	17.5							26.9	46.9		5.1	3.6	
housewives	20.5				4.7			6.5	19.2	8.4	4.8	32.6	
retired	30.6	15.3			13.2						35.2		
students	3.4	10.3			5.4	3.8	0.4	0.3	39.4	17.8	6.0		7.7
EXERCISE PROGRAM													
white collar	9.3	7.9			3.5	0.9		2.1	57.6	1.6	6.9	2.0	8.2
blue collar	11.9	4.6	0.3	0.5	5.7		0.4	4.5	57.0	0.9	4.8	2.0	7.5
farm									60.4	39.6			
service	2.9	4.8		3.1				3.6	67.7	5.4	9.8		2.6
housewives	12.8	3.5			4.8	0.7	1.7	4.9	34.9	4.5	5.3	16.1	8.6
retired	12.4					9.8			32.3	14.6	16.7		10.5
students	3.5	7.6	2.3		7.2	0.6	3.0		52.9	4.7	1.8		16.4

TABLE K-8 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
CAMPING, FISHING, ETC.													
white collar	16.1	8.2			4.3	0.6		11.1	44.0	3.6	3.3	3.6	4.6
blue collar	10.2	8.3	1.0		2.3	0.7		15.6	47.0	3.3	1.5	4.7	5.5
farm	3.9	1.9							69.3	19.3		5.6	
service	21.7	6.0	1.1					7.7	42.8	14.9		3.7	2.1
housewives	16.8	8.9		0.2	3.6	0.8		8.3	29.0	5.6	3.4	15.9	6.3
retired	25.1	10.4		1.0				23.9	8.2		30.8		0.5
students	11.5	15.3	0.8		5.0	0.5		7.2	33.4	13.1	1.8	2.2	7.0
PICNICKING, PARKS, ETC.													
white collar	16.0	8.4		0.5	4.0	2.4		5.3	49.2	5.1	2.8	0.3	5.5
blue collar	5.5	11.7	1.0		4.5	4.3		14.6	49.1	4.2	0.3		4.6
farm					20.8				58.5			20.8	
service	2.5	12.6		2.2	12.9			2.6	54.6	8.0			4.6
housewives	18.7	12.4		0.6	9.1	4.0		7.7	28.0	6.8	2.2	6.8	3.0
retired	11.5	11.5			8.9	10.7		17.5	14.8		20.4		3.2
students	8.6	10.2	2.0		0.9			10.7	45.1	11.3	0.5		10.6
PLAYING WITH CHILDREN													
white collar	4.6	6.9	0.7	1.4	1.4	0.4		0.3	62.2	1.9	2.6	1.3	16.3
blue collar	6.5	4.6	1.6				0.4		71.9	5.8	1.0	2.1	6.0
farm									79.4			20.6	
service	1.4	1.4							89.9			4.8	2.6
housewives	6.8	2.5		1.0	2.4				67.5	0.9	5.2	1.6	11.3
retired		16.5						16.5	31.3	18.0			13.5
students	3.5		15.8						42.0		10.0		28.7
PLAYING OUTDOOR GAMES													
white collar	27.3	2.6	0.1	0.3	1.9	2.2	1.6	2.4	51.0	2.1	3.0	2.5	3.8
blue collar	17.9	3.7	2.9	1.8	3.4			4.2	52.5	2.9		1.6	7.5
farm	50.3				9.6				40.1				
service	36.8								58.5				4.7
housewives	38.6	3.3	0.3	0.5	3.4		0.9	1.5	32.7	2.8	1.0	12.7	0.7
retired	43.5	12.7				7.2		4.5	25.6		5.2		1.3
students	6.5	2.3			8.6			4.2	58.8	9.0	0.5		9.9

TABLE K-8 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
FAMILY & FRIEND VISITS													
white collar	3.7	10.1	0.7	1.8		0.9		7.2	63.9	1.8	1.5	1.4	6.9
blue collar	5.2	21.4	1.4	2.6				9.4	52.1	0.4		2.2	5.3
farm									79.0			21.1	
service	4.4	1.5		3.3				7.3	82.0	1.5			
housewives	9.7	13.4		4.3				9.4	46.0	4.5	0.3	7.2	4.5
retired	19.0	28.0	2.1					12.4	13.1		23.2		3.3
students	6.2	6.2	2.2					7.5	53.1	4.6	0.5	2.9	16.8
CHURCH & CHURCH ACTIVITIES													
white collar	15.3	4.5	0.9	10.1	1.8		1.8		49.2	0.3	2.7	3.1	10.3
blue collar	8.5	10.7	0.3	19.0	1.6	0.6	2.3		44.2	0.9		4.6	7.4
farm									55.7	22.1		22.1	
service	16.5	1.1	1.5	6.0					62.1	3.4	2.2	4.3	2.9
housewives	23.8	10.1	1.6	4.0		1.7	2.1	1.5	27.2	1.2	5.3	10.0	9.7
retired	16.7	5.3	1.3	15.4		2.5			29.7	5.3	23.1		0.6
students	16.2	6.8	4.9	1.4			20.5		27.1		0.9	6.6	10.6
PLAYING WITH PETS													
white collar	1.6	3.5	0.2		2.4			2.6	74.2	0.8	2.3	2.7	8.8
blue collar	7.7							7.1	60.1	7.2	4.9	5.0	4.5
farm									100.0				
service									75.9			10.4	13.8
housewives	10.6								70.0		2.3	1.2	13.3
retired	5.9	23.5									70.5		
students	3.5	8.9			2.9			4.9	62.9				11.9
READING													
white collar	7.1	0.7			0.2			3.5	73.9	0.2	2.1	4.7	7.4
blue collar	8.7	2.1						2.7	73.7	2.5		7.7	2.5
farm									100.0				
service	1.4								81.4		1.1	15.3	0.7
housewives	1.7	0.4			1.4			6.0	82.6	0.5	1.9	26.6	2.9
retired	6.1	5.1						6.7	59.4	4.1	15.3		0.6
students		5.2						4.1	70.6	0.6	0.5	3.0	16.1

TABLE K-8 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
WATCHING NEWS OR READING NEWSPAPERS													
white collar	11.6	2.0	0.2	0.5			3.9	0.1	64.8	6.4	1.2	7.4	0.9
blue collar	15.5	5.2	5.8				5.3		59.0	3.7		3.4	2.0
farm	20.2								59.6	20.2			
service	16.1						1.4	5.0	64.0			8.7	4.6
housewives	12.6	1.7	2.1		0.9		7.5		41.1	0.7		25.4	7.1
retired		2.0		7.7			12.9		50.0	13.3	14.1		
students	7.9	4.1	7.0				2.0		61.4		0.6	0.6	16.5
DO-IT-YOURSELF ACTIVITIES													
white collar	3.2	2.4			1.4			16.9	63.8	1.0	3.3	2.3	5.8
blue collar	5.8	2.9			0.9			30.4	49.1	1.0	1.8	2.2	3.9
farm								29.8	70.1				
service	2.5				1.9			12.0	78.5			4.1	1.0
housewives	2.0				0.1			33.6	44.9	0.2	2.2	12.4	3.8
retired	0.6		1.5		5.4			31.0	23.8		35.6		2.1
students			2.4		3.0			26.3	44.8	6.2	2.8		14.4
THINKING OR DAY-DREAMING													
white collar	2.0	1.8			0.7	3.0		0.5	75.9	0.3		4.4	11.4
blue collar	13.7	2.3							71.9	1.5		6.4	4.1
farm									54.4			45.6	
service									84.9			15.1	
housewives						2.3			70.3			23.6	
retired									33.8				
students					0.9				57.5				26.1
VOLUNTEER WORK													
white collar	7.1	5.3		1.4	2.0	3.6	4.0		58.2	2.1	3.8	4.3	7.1
blue collar	10.1	3.7		0.6			8.2	7.0	59.8	1.2		1.9	3.7
farm									100.0				
service	1.7								94.0	4.3			
housewives	12.4	8.5		2.2			1.9		30.4	8.0	10.4	15.4	9.2
retired	15.8	6.1					10.3		12.4		40.9		11.5
students	10.1	12.4	4.0				8.3		53.0	0.4	0.7	4.0	7.3

TABLE K-8 Continued

	1	2	3	4	5	6	7	8	9	10	11	12	13
CLUB ACTIVITIES													
white collar	12.0	4.8		3.8	3.5		1.1	6.0	41.9	10.5	7.3	3.3	5.8
blue collar	2.4	7.4		2.7	2.6			1.6	71.5			1.5	2.9
farm													
service	18.5								74.5	7.0			
housewives	7.8	9.4					7.0		33.7	11.2	1.9	16.2	8.2
retired	12.4	16.2				16.2		16.2	22.8		12.1		
students	13.1	6.0	6.9		1.0		1.1	0.7	56.1		1.3		13.8

APPENDIX L

Description of the Characteristics of the Howard-Harris Cluster Analysis Program

The following is a more detailed narrative description of the characteristics of the Howard-Harris cluster program used in this study. This description is taken directly from Gary Ford, "Pattern of Competition within the Computer Industry: A Cluster Analytic Approach", State University of New York, Buffalo, June, 1973, with the permission of the author.

The Howard-Harris Cluster Analysis Program

Cluster analysis is concerned with grouping similar objects. "Its usual objective is to separate objects into groups such that each object is more like other objects in its group than like objects outside the group. Cluster analysis is thus ultimately concerned with classification and its techniques are part of the field of numerical taxonomy." Typically, clustering procedures assign objects to one and only one class and objects within the class are assumed to be indistinguishable from one another on the basis of the underlying structure of the data describing the objects. When performing cluster analysis, the researcher is assuming that the data are heterogeneous and that homogeneous groups exist within the total sample. However, with cluster analysis there is no prior information on group definition. On the basis of this broad description of the goals of cluster analysis we must identify the major problems associated with its use.

An important problem concerns the measure of interobject similarity to be used. Most clustering procedures use pairwise measures of proximity which generally fall into two classes: (1) distance-type measures, and (2) matching type measures.[1]

Distance type measures are appropriate when the objects being clustered can be viewed as points in multidimensional space. The formula for the Euclidean distance function is:

$$d_{ij} = \left[\overset{r}{\underset{k=1}{}} \quad \left| (X_{ik} - X_{jk}) \right|^{2} \right]^{1/2}$$

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[1] The second class proximity measures are appropriate for data which are nominally scaled and is of no relevance to this study.

where X_{ik}, X_{jk} are the projections of points i and j on dimensions k (k=1, 2, ..., 4). To eliminate the problem of variables being measured in different units, the distance formula is usually applied after each variable has been standardized to zero mean and unit standard deviation.

The use of the Euclidean distance measure technically assumes that the variables describing objects are uncorrelated. Where variables are correlated, those dimensions are implicitly being weighted heavier than uncorrelated variables.

Finally, the Euclidean distance measure preserves all of the information contained in the original data matrix. Therefore, if the assumptions surrounding its use can be met, it is a desirable distance method to use.

Other distance measures have also been proposed. However, many of these distance measures have the undesirable property of reducing the dimensionality of the original space by eliminating some of the information contained in the original data matrix.

A second important problem with cluster analysis concerns the weight which is given to each dimension in the clustering procedure. It should be noted that unless the researcher has explicitly determined that uncorrelated variables (or dimensions) are used to describe objects, the actual weight being given to each dimension is unknown. For this reason, principal components factor analysis is often performed on the original data matrix, and the objects are expressed in terms of factor scores for clustering. With this procedure the analyst knows that each factor is uncorrelated and weighted equally. At this

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point the analyst also may want to weight some variables heavier than others, and can by multiplying each dimension by a constant expressing its desired relative weight.

A third major problem with clustering procedures concerns the criteria which are used to form clusters. There are many different algorithms and computational routines available for performing clustering. The two most often used classes of clustering programs can be identified as hierarchical methods and connectivity methods.

Hierarchical methods usually start out with one point at the first level and add the closest point to it at the second level, and so on, with the criteria for clustering being minimizing the diameter of the cluster. Eventually all points form one large cluster. If no points are close enough to the starting cluster according to some predetermined criteria, a second cluster is started. This process is continued until all points are accounted for. Hierarchical methods may also start with one large cluster including all points, and divide into two clusters and then into three clusters, etc., on the basis of average within cluster distance. The objective in these programs is to minimize the reduction in the within cluster sums of squared distances.

Connectivity methods develop linkage of points based on interpoint distances. The two closest points form a cluster, then the next closest points form a cluster, then the next closest point is linked on these two, and so on. This process continues until all points are in one cluster or until no point is close enough to the first cluster to be linked to it according to some prespecified criteria. The two closest remaining points are then taken as the start of the second cluster and the process is continued, until all points are clustered. The result of this procedure is strands of objects.

At an intuitive level the criteria of hierarchical methods which result in "clumps" of objects rather than strands is more appealing to this researcher. Furthermore for the purposes of this study, i.e., to define groups of similar (i.e., competing) machine across all dimensions, the hierarchical methods seem more appropriate.

A fourth problem with cluster analysis is concerned with how many clusters to form. There are no statistical procedures available to the researcher that tell when to stop clustering. In this study a measure analogous to the notion of explained variance was employed. A ratio was formed between the Total Sums of Squares of distances among all points and the sum of Within Clusters Sums of Squares for each cluster. When increasing the number of clusters by one did not substantially reduce the within clusters sums of squares, it was apparent that the clusters were about as compact as they were going to be. This quantitative decision rule appeared more useful than simply using the subjective opinions of the researcher to decide when to stop clustering.

Given that the analyst arrives at a cluster analytic solution, the final problem remains as to how the clusters are to be described. One frequently used measure is that of the cluster centroid, which is the average value of the objects contained in the cluster on each dimension. This measure is quite natural for objects which are interval scaled. If the dimensions are factor scores the analyst will have to go back to the factor analysis correlation matrix and attempt to identify each factor in terms of the original variables or a summary descriptive phrase. In addition to the centroid the analyst may want to compute some measure of cluster variability such as average interpoint distance between each point and the cluster centroid. In this dissertation the variance of each cluster centroid was computed as a measure of compactness.

A final caveat concerning cluster analysis concerns the lack of statistical tests to estimate the reliability of clusters. As Green and Tull state "... no fully defensible procedures are currently available."

The Howard-Harris cluster program used in this report can be described as a hierarchical grouping technique. The criterion of this cluster routine at any given level of clustering is to find clusters whose within-cluster sums of squares summed over all clusters is minimal.

The program starts with two clusters (based on the assignment of objects to two groups according to their being above or below the mean on the first characteristic) and sequentially improves the initial two clusters by transferring points from cluster to cluster. If the squared distance of any object to the mean of its own cluster is greater than its distance to the mean of any other cluster, the object is transferred to the cluster whose mean is closest to it. The resulting optimum only holds for the given number of clusters.

Of the two clusters, the one having the greatest within cluster sum-of-squares is next partitioned (on the basis of its mean on the first characteristic) yielding three clusters. Objects are again transferred among clusters to satisfy the minimum within sum-of-squares criterion. The program proceeds in this way to a maximum of 10 clusters.

At each stage in the analysis the program prints out: (1) the membership in each cluster; (2) the coordinates of the cluster centroids; (3) the total sum of squares for each variable in each cluster; and (4) the total within clusters sum-of-squares summed over all clusters.